



ISOLATES FROM HOSTS IN **COLEOPTERA**

FULLY INDEXED

[INCLUDES 1550 ISOLATES]

USDA-ARS Biological Integrated Pest Management Research
Robert W. Holley Center for Agriculture and Health
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28 July 2011

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IMPORTANT NOTE

Recent phylogenetically based reclassifications of fungal pathogens of invertebrates

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UPDATED July 2011

Some seemingly dramatic and comparatively recent changes in the classification of a number of fungi may continue to cause confusion or a degree of discomfort to many of the clients of the cultures and informational resources provided by the ARSEF culture collection. This short treatment is an attempt to summarize some of these changes, the reasons for them, and to provide the essential references to the literature in which the changes are proposed.

As the Curator of the ARSEF collection I wish to assure you that these changes are appropriate, progressive, and necessary to modernize and to stabilize the systematics of the fungal pathogens affecting insects and other invertebrates, and I urge you to adopt them into your own thinking, teaching, and publications.

The identifications in the ARSEF catalogs (<http://www.ars.usda.gov/Main/docs.htm?docid=12125>) incorporate these new classifications as soon as we can confirm the correct new identifications of fungi and, where genera or species are being split on molecular grounds, to determine and to apply the correct new identifications.

General Reclassification of Fungi

The results of a global cooperative effort involving dozens of mycologists (including the curator of this collection) to reclassify the fungi according to phylogenetically sound principles based on the DNA sequence data for multiple genes has recently resulted in the publication of two monumentally important publications that completely rework mycological systematics. The earlier publication was a phylogenetic overview of virtually all fungi (James *et al.* 2006). The second publication (Hibbett *et al.* 2007) provided the necessary taxonomic readjustments that were indicated by the phylogenetic studies.

Microsporidia

Many mycologists and invertebrate pathologists are now aware that the Microsporidia have been proven beyond any reasonable doubt to be comparatively recent and highly derived endobiotic fungi. They are neither extremely ancient eukaryotes nor affiliated with protozoans as most textbooks indicate. None of this realignment to the fungi is being disputed by either microsporidiologists or phylogenetic mycologists. The rationale for this realignment is presented succinctly in James *et al.* (2006). These fascinating organisms connect to the fungal tree of life at the base of the nonflagellate fungi (among or near the fungi traditionally treated as the Zygomycota) but their exact affinities and nearest remain uncertain.

Zygomycota, Zygomycotina, Zygomycetes and Entomophthorales

The phylogenetic reclassification of fungi (Hibbett *et al.*, 2007) significantly modified the traditional view of the most ancestral nonflagellate fungi. The phylum Zygomycota, subphylum Zygomycotina, and class Zygomycetes disappeared in their widely understood sense to be replaced by the phylum Glomeromycota (for arbuscular mycorrhizal fungi) and a series of new subphyla not yet assigned to any phylum (because of the obviously polyphyletic nature of the zygomycetes as traditionally treated). The Entomophthorales is reclassified in the subphylum Entomophthoromycotina Humber (in Hibbett *et al.* 2007); the other new subphyla in this group are the Mucormycotina, Zoopagomycotina and Kicxellomycotina. Where there had been some question about whether *Basidiobolus* and its close relatives should be retained in the Entomophthorales or moved to a position closer to some of the blastocladialean watermolds, James *et al.* (2006) unequivocally retain *Basidiobolus* in an ancestral position in the Entomophthorales.

Despite the short-term frustration of needing to deal with fungi belonging to these groups that the familiar concepts of Zygomycota, Zygomycotina and Zygomycetes are now abandoned. Until such a time as the molecular studies clarify the overall relationships among these fungi and establish a new set of phyla, my practical advice to the clientele of the ARSEF culture collection is to continue to use these discontinued phylum, subphylum and class names since (1) their meanings remain unambiguous in terms of the fungi included, and (2) journals and other outlets may remain unwilling or unable for some time still to handle the concepts of new subphyla with unassigned status ('*incertae sedis*').

Entomopathogenic Ascomycetes and Associated Anamorphic (Conidial) States

Among all of the major taxonomic changes within the fungi that affect entomopathogenic fungi, the most dramatic and far-reaching involve the ascomycetes and their conidial (anamorphic) states classified among the pyrenomycetous fungi of the order Hypocreales. In one of the first major changes to be noted, those ascomycetous entomopathogens whose ascospores are produced in perithecia (nearly closed spherical to flask-like fruiting bodies) are now put in the class Sordariomycetes, a name based on a valid generic name, rather than in the historically familiar class Pyrenomycetes, a name based on the morphology of the fruiting body. The great majority of these fungi have long been recognized to belong in the family Clavicipitaceae (mostly in the genera *Cordyceps*, *Torrubiella* or *Hypocrella*). A major phylogenetic reclassification of the Clavicipitaceae (Sung *et al.* 2007; available free of charge at <http://www.studiesinmycology.org>) has split this family into three (Table 1), a long overdue major reworking of the taxonomy of *Cordyceps* and, subsequently, a reshuffling of anamorphic states among these families. This publication by Sung *et al.* (2007) is very long and complex since it includes a highly detailed phylogenetic analysis of these fungi as well as presenting the new taxonomy, descriptions of new families, genera, and species, and a very large number of new combinations (mostly segregating *Cordyceps* into their newly described segregate genera), and listing of the known or suspected anamorphic states associated with these taxa.

Note that Table 1 shows *Torrubiella* to be split between two families. This is an untenable position in a phylogenetically based classification that requires all taxa to represent monophyletic lineages. Future phylogenetic studies that will result in the reclassification of *Torrubiella* are obviously required. Also note that some anamorphic states with morphologies referable to *Hirsutella*, *Paecilomyces* and *Verticillium* (the latter two genera in their old senses from before recent phylogenetic reclassifications discussed below) may occur in more than one family; this underscores the need to regard anamorphic states as being named in form-genera defined only by their morphologies and similar modes of development rather than by phylogenetic relatedness.

Table 1. Summary of some major teleomorphic (sexual) and anamorphic (conidial) genera of Hypocreales pathogenic to invertebrates (Sung *et al.* 2007).

	FAMILY		
	Clavicipitaceae	Cordycipitaceae	Ophiocordycipitaceae
Teleomorphs:	<i>Hypocrella</i> , <i>Metacordyceps</i> , <i>Regiocrella</i> , <i>Torrubiella</i>	<i>Cordyceps</i> s.str., <i>Torrubiella</i>	<i>Ophiocordyceps</i> , <i>Elaphocordyceps</i>
Anamorphs:	<i>Aschersonia</i> , <i>Metarhizium</i> , <i>Nomuraea</i> , <i>Paecilomyces</i> -like ¹ , <i>Pochonia</i> , <i>Rotiferophthora</i> , <i>Verticillium</i> -like ²	<i>Beauveria</i> , <i>Engyodontium</i> , <i>Isaria</i> , <i>Lecanicillium</i> , <i>Mariannaea</i> -like, <i>Microhilum</i> , <i>Simplicillium</i>	<i>Haptocillium</i> , <i>Harposporium</i> , <i>Hirsutella</i> , <i>Hymenostilbe</i> , <i>Paraisaria</i> , <i>Purpureocillium</i> <i>Sorosporella</i> , <i>Syngliocladium</i> , <i>Tolyphocladium</i> , <i>Verticillium</i> -like ²

¹ Species formerly in *Paecilomyces* sect. *Isarioidea*, now excluded from *Paecilomyces* in the strict sense but also from *Isaria* (which now includes most entomogenous species transferred from *Paecilomyces*).

² Species formerly in *Verticillium* sect. *Prostrata*, now excluded from *Verticillium* in the strict sense but not yet reclassified in the segregate genera recognized by Zare and Gams (see below).

Table 2. Publications eliminating and reclassifying *Verticillium* section *Prostrata*

PART	AUTHORS	SUBJECT COVERED
1	Zare, Gams & Culham (2000)	ITS sequence analyses
2	Sung, Spatafora <i>et al.</i> (2001)	SSU, LSU rDNA sequence analyses
3	Gams, Zare (2001)	Generic reclassification
4	Zare, Gams (2001)	<i>Lecanicillium</i> and <i>Simplicillium</i> monograph
5	Zare, Gams, Evans (2001)	<i>Pochonia</i> , <i>Rotiferophthora</i> monograph
6	Zare, Gams (2001)	<i>Haptocillium</i> monograph

Table 3. Current phylogenetically based classification within Hypocreales of some species formerly classified in *Paecilomyces* sect. *Isarioidea* (following Luangsa-ard *et al.* 2005; Sung *et al.* 2007; Luangsa-ard *et al.* 2011)

FAMILY	GENUS	INCLUDED SPECIES
Clavicipitaceae	' <i>Paecilomyces</i> ' ¹	<i>carneus</i> , <i>marquandii</i>
Cordycipitaceae	<i>Isaria</i>	<i>amoenorosea</i> , <i>cateniannulata</i> , <i>catenobliqua</i> , <i>cicadae</i> , <i>coleopterora</i> , <i>farinosa</i> , <i>fumosorosea</i> , <i>ghanensis</i> , <i>tenuipes</i>
Ophiocordycipitaceae	<i>Purpureocillium</i>	<i>lilacinum</i> (<i>syn.</i> : <i>Paec. lilacinus</i>)

¹ No generic re-assignments have been made for these hypocrealean anamorphs that continue (for lack of better alternatives) to be treated provisionally as *Paecilomyces* species. The generic affinities of other excluded '*Paecilomyces*' species noted by Luangsa-ard *et al.* (2005) remain uncertain.

Phylogenetically based reclassification of *Verticillium* section *Prostrata* – The extensive, phylogenetically based reclassifications of conidial fungi that common pathogens of insects or other invertebrates began with the reclassification of *Verticillium* species. The venerable classification of this genus (Gams 1971) recognized the sections *Verticillium* and *Prostrata*. All species in *Verticillium* sect. *Verticillium*, which included the phytopathogens with well differentiated, erect conidiophores, are anamorphs of perithecial ascomycetes in the order Phyllachorales. The species in *Vert.* sect. *Prostrata*, however, were anamorphs attributable to the order Hypocreales (Sordariomycetes). Because the current systematics practices recognize monophyletic taxa, it was necessary to remove the species from *Verticillium* section *Prostrata* to other genera. This reclassification was done in six publications (Table 2) reflecting primarily the doctoral research of Rasoul Zare under the guidance of Walter Gams. Most entomopathogens from this group are now placed in *Lecanicillium*, a genus whose type species, *L. lecanii*, was also recognized to be a species complex recognized to include at least three species (*L. lecanii*, *L. muscarium*, and *L. longisporum*) and thus replacing the morphologically highly variable *Verticillium lecanii*.

Phylogenetically based reclassification of *Paecilomyces* section *Isarioidea* – The long-used taxonomy of *Paecilomyces* by Samson (1974) divided this genus into two sections, and with all entomopathogens treated in *Paecilomyces* sect. *Isarioidea*. The type species, *P. variotii* Bainier, and all species in *Paecilomyces* sect. *Paecilomyces* are anamorphic (conidial) states of cleistothelial ascomycetes in the Eurotiomycetes. In an exact parallel with the situation for the two sections of *Verticillium*, all species in *Paec.* sect. *Isarioidea* are anamorphic states of pyrenomycete ascomycetes in the order Hypocreales, mostly in the family Clavicipitaceae although the reclassification of that family by Sung *et al.* (2007) now disperses these former *Paecilomyces* species among three families (Table 3). The taxonomic revision of *Paecilomyces* section *Prostrata* began with the lectotypification and determination of the status of *Isaria* (Hodge *et al.* 2005), a genus long ago relegated to synonymy with *Paecilomyces*, and the formal conservation of the generic name *Isaria* (Gams *et al.* 2005). The next step was a phylogenetic study that confirmed the polyphyletic nature of *Paecilomyces* in the broad sense (Luangsa-ard *et al.* 2004), followed then by a formal reclassification (with new combinations) of most species from *Paec.* sect. *Isarioidea* into *Isaria* while several other species from this section were excluded from both *Paecilomyces* and *Isaria* and still await transfers into appropriate anamorphic genera (Table 3). Most recently, *Paec. lilacinus* was transferred to a new (as yet monotypic) genus in Ophiocordycipitaceae as *Purpureocillium lilacinum* (Luangsa-ard *et al.* 2011).

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ARS COLLECTION OF ENTOMOPATHOGENIC FUNGAL CULTURES

History and Purpose of the ARSEF Collection

The goal of the ARS Collection of Entomopathogenic Fungal Cultures (ARSEF) is to provide fundamental support for basic and applied research on the fungal pathogens of invertebrates. Since its establishment in the early 1970s, this collection has served as a general research resource for the isolation, collection, preservation, and distribution of fungal strains from insects, other arthropods, and nematodes. Emphasis has always been placed on acquiring and distributing strains under active study for use as potential biological control agents. Basic research associated with the collection includes fungal systematics, fungal cytology, pathobiology, and methodology for fungal cryopreservation. The culture collection and its associated collection of microscope slides and herbarium specimens provide invaluable support for taxonomic research on and the diagnoses of fungal pathogens of invertebrates. Identification services for specimens and cultures have always been available free of charge to any laboratories requesting them.

We strive to provide users with pure and accurately identified fungal cultures., and the taxonomies applied to the fungi in this collection are continuously updated to reflect their current accepted classifications. The curator of the collection welcomes all correspondence about nomenclatural or taxonomic changes or possible misidentifications involving any ARSEF strains.

The ARSEF collection began as Richard Soper's research collection in the USDA-ARS laboratory at the University of Maine (Orono; UMO) where its cultures were at initially designated by a UMO or RS prefix before adopting ARSEF in 1985. In 1978, the ARS Insect Pathology Research Unit relocated to Ithaca, NY, to work with the Boyce Thompson Institute (BTI) on the Cornell University campus. The Insect Pathology Research Unit became the Plant Protection Research Unit (PPRU) in 1985, and was renamed in 2008 as the Biological Integrated Pest Management Research Unit (BioIPM). The ARSEF collection moved from BTI in 1990 into the US Plant, Soil & Nutrition Laboratory which was rededicated in 2008 as the Robert W. Holley Center for Agriculture & Health to commemorate Dr. Holley's work there to complete the first sequencing of any nucleic acid; he received the 1968 Nobel Prize for Medicine or Physiology for this work.

BioIPM operates the ARSEF culture collection for the USDA Agricultural Research Service; the collection is not now and has never been owned or controlled by the Boyce Thompson Institute. ARSEF is one of the largest germplasm collections in the ARS, and is widely recognized for its active support of research on fungal pathogens of invertebrates. ARSEF and its associated herbarium are registered under the ARSEF acronym since 1985 with the World Federation of Culture Collections' World Data Center on Microorganisms and the International Association of Plant Taxonomists' *Index Herbariorum*, respectively.

From 1977 through 2008, all strains in the collection were preserved by immersion in liquid nitrogen. A program to lyophilize those isolates that could tolerate such was begun in the 1990's, and has expanded in scope and pace. At the end of 2008 the vast majority of the collection was consolidated in a single large nitrogen dewar in a new facility adjacent to the current building. Requests for cultures are filled with either actively growing cultures on appropriate media or, if available, as freeze-dried units.

Identifying and Acknowledging ARSEF Strains in Publications

We request that all publications using or referring to strains obtained from ARSEF acknowledge the U.S. Department of Agriculture, ARS Plant Protection Research Unit and state the ARSEF accession numbers of these strains. We would very greatly appreciate receiving reprints of all past, current, and future publications or even periodic notification about research in progress involving the use of ARSEF strains.

Accession numbers of strains from commercial culture collections such as the American Type Culture Collection (ATCC), Centraalbureau voor Schimmelcultures (CBS), CAB International Mycological Institute (IMI), and other registered general service collections are listed in this catalog to provide complete information about specific isolates. ***Representation of cultures obtained from ARSEF as being from ATCC, CBS, IMI or UAMH or other general service culture collections violates trademark laws, and persons doing so are subject to prosecution.*** Cultures received from ARSEF should be referred to by their ARSEF numbers only even if they are co-deposited in other other culture collections.

Depositing and Exchanging Cultures

BioIPM and ARSEF encourage deposition of entomopathogenic fungal cultures in the ARSEF collection—particularly strains used in published studies—and of voucher and reference specimens to its herbarium. Depositors may reserve the right to limit redistribution of any culture deposited with ARSEF for specified times upon consultation with the curator. Depositors can receive subcultures of their own depositions at any time; these cultures do not affect any allowances of free cultures. Exchanges of cultures between ARSEF and other research or general collections of fungal cultures are encouraged and are not subject to numerical limits.

Prior to shipping cultures from countries outside the United States contact the Curator to obtain the appropriate needed importation permit from the U.S. Department of Agriculture, Animal and Plant Health Inspection Services, Plant Protection and Quarantine.

When sending cultures and/or specimens to ARSEF, it is very important to include as much of the following information as possible:

1. Scientific name (and taxonomic authority) of the fungus.
2. Common and scientific name (with taxonomic authority) of the host.
3. Order and family of the host. (***This information is especially important!***)
4. Date and site of collection.
5. Name of collector.
6. Date and name of isolator.
7. Any collection, accession, or other identifier number(s) applied by the collector or sender.
8. Medium on which a culture is sent.
9. Any special requirements or conditions for growth (such as medium, temperature, pH).

Diagnostic Services for Cultures and Specimens

Specimens and cultures of unidentified fungi from invertebrates can be submitted to ARSEF for diagnosis. This service is an important function of the ARS Collections of Entomopathogenic Fungi and is provided without charge. Identifications and information about the disposition of specimens will be mailed to the sender.

Release of ARSEF Cultures from Containment or Quarantine

Neither the curator nor any employee of ARSEF or of the Plant Protection Research Unit is entitled to authorize the release of any culture it provides from laboratory containment or quarantine in the United States or elsewhere. Recipients of ARSEF cultures are responsible for obtaining appropriate and necessary permissions from or for providing official notifications to State and Federal regulatory agencies.

ORDERING INFORMATION

Please send all requests for isolates directly to the Curator (Richard A. Humber):

ARS Collection of Entomopathogenic Fungal Cultures
Robert W. Holley Center for Agriculture & Health
Tower Rd.
Ithaca, NY 14853-2901

Telephone: [+1] 607 255-1276
OR
Fax: [+1] 607 255-1132
Email: richard.humber@ars.usda.gov

Academic, Government, and Other Nonprofit Institutions

1–5 isolates [up to 7 per calendar year]	no charge
6 or more isolates per order [8 or more per calendar year]	US\$50 per strain

Users from nonprofit institutions can receive up to five isolates without charge in any 6 month period, and up to seven cultures in any calendar year. Requests in excess of these limits may be charged at the rate of US\$50 per additional isolate requested. Requests from commercially sponsored research programs undertaken by nonprofit institutions are charged at the commercial rate and are not subject to numerical limits. Prices are subject to change without notice.

Commercial and Industrial Institutions

US\$75 per strain

Nonprofit institutions working on commercially sponsored contractual projects (such as screening programs) are charged at the rate of US\$75 per strain requested. There are no limits on the numbers of cultures that can be requested or shipped. Prices are subject to change without notice.

Commercial or industrial firms supporting research at the ARS Plant Protection Research Unit are entitled to free access to cultures pertinent to contracted projects; all other requests are charged at the current rate.

TERMS OF SHIPMENT

If necessary, billings for isolates are issued through the Boyce Thompson Institute (BTI). *Checks or money orders for strains must be payable to the Boyce Thompson Institute* and sent directly to the curator of the ARS Collections of Entomopathogenic Fungi, to BTI or deposited by direct electronic funds transfer according to information provided by BTI. Consult the curator of the collections with questions about fees due for any particular shipment.

All recipients of cultures are strongly encouraged to provide express shipper account numbers to allow shipping costs to be billed directly to recipients, thus assuring significant cost-savings to the ARSEF collection.

We request confirmation of receipt and viability of cultures shipped. Inviable strains will be replaced.

ARSEF reserves the right to refuse to ship isolates

- to recipients who cannot handle them using standard microbiological practices,
- to laboratories that cannot assure laboratory containment of isolates except after obtaining permissions from applicable State and Federal regulatory agencies, or
- if use of routine mailing or shipping procedures cannot assure the receipt of viable cultures.

Neither ARSEF, BiolPM, nor the Boyce Thompson Institute is liable for damages arising from the misidentification of strains.

INTERPRETATION OF STRAIN ACCESSION DATA

The following examples provide a guide to the arrangement and interpretation of collection data included in this catalog.

***Beauveria bassiana* (Balsamo) Vuillemin**

1564 [CBS 111238]. KV Deséo (103) Cortellini. Pupa, *Hyphantria cunea* [Lepidoptera: Arctiidae]. Mar 1984. Italy: Villa Cadé (Reggio Emilia), Emilia-Romagna. Identification verified genomically. Ex-type isolate.

1564	ARSEF accession number.
[CBS 111238]	Alternative deposition in another culture collection.
KV Deséo (03)	Depositor and depositor's reference or accession number.
Cortellini	Collector of this isolate.
<i>Hyphantria cunea</i> [Lepidoptera: Arctiidae]	Original host [host's order and family]
Mar 1984	Date of accession or receipt by ARSEF.
Italy: Villa Cadé (Reggio Emilia), Emilia-Romagna	Country of origin followed by the locality and state.
Identification verified genomically. Ex-type isolate	Additional essential information about this isolate.

***Conidiobolus thrombooides* Drechsler**

73 [CSIRO EM534; FPMI 28] RG Kenneth (3040) ← ATCC (24419) ← DM MacLeod ← G Thoizon. *Rhopalosiphum insertum* [Homoptera: Aphididae]. Rec'd 18 Jan 1976. France: Val-de-Marne, La Varenne.

73	ARSEF accession number.
[CSIRO EM534; FPMI 28]	Alternative depositions of this strain in other culture collections.
RG Kenneth (3040)	Depositor and depositor's reference or accession number.
← ATCC (24419 ← DM MacLeod ← G Thoizon	Culture provenance: RG Kenneth obtained the culture from ATCC, which received it from DM MacLeod, who received it from G Thoizon.
<i>Rhopalosiphum insertum</i> [Acari: Eriophyidae]	Original host [host's order and family]
Rec'd Jan 18 1976	Date of receipt by ARSEF.
France: Val-de-Marne, La Varenne	Country of origin followed by the locality and region.

***Hirsutella thompsonii* Fisher**

137 [ATCC 24874; CBS 952.73] CW McCoy (Fla. 68). *Phyllocoptrus oleivora* [Acar: Eriophyidae]. 1 Jan 1970. USA: Orlando, Florida.

137	ARSEF accession number.
[ATCC 24874; CBS 952.73]	Alternative depositions of this strain in other culture collections.
CW McCoy (Fla. 68)	Depositor and depositor's reference or accession number.
<i>Phyllocoptrus oleivora</i> [Homoptera: Aphididae]	Original host together with the host's order and family.
Jan 1 1970	Date of accession or receipt by ARSEF. Note: January 1 is a default date if an exact date in a year is unknown; the first day of the month is the default if no specific day in a month is known.
USA: Orlando, Florida	Country of origin followed by the locality and state.

ABBREVIATIONS

Information about the world's officially registered culture collections, their registered acronyms (e.g., ARSEF), and more is available from the CCINFO database and from other resources available at the website of the World Data Center for Microbiology <http://wdcm.nig.ac.jp/WDCHomePage_text.html>

ARSEF	ARS Collection of Entomopathogenic Fungi, USDA-ARS BioIPM Research Unit, Robert W. Holley Center for Agriculture & Health, 538 Tower Rd., Ithaca, New York, 14853-2901, USA
ATCC	American Type Culture Collection, PO Box 1549, Manassas, Virginia 20108, USA
CATIE	Centro Agronómico Tropical de Investigación y Enseñanza, Proyecto UIP, Apdo. Postal 7170, Turrialba, Costa Rica.
CBS	Centraalbureau voor Schimmelcultures, Uppsalaalaan 8, 3584 CT Utrecht, The Netherlands
CCF	Culture Collection of Fungi, Department of Botany, Charles University, Prague, Czech Republic
CCFC	Canadian Collection of Fungus Cultures, Centre for Land and Biological Resources Research, Room 1015, K.W. Neatby Bldg., Ottawa, Ontario K1A 0C6, Canada
CDC	Centers for Disease Control and Prevention, Atlanta, Georgia 30333, USA
CENARGEN	Centro Nacional de Pesquisa de Recursos Genéticos e Biotecnologia, S.A.I.N. Parque Rural, C.P. 102372, 70770 Brasília, D.F., Brazil
CIRI	Corn Insects Research Unit, USDA-ARS, R.R. Box 45B, Ankeny, Iowa 50021, USA
CNPAF	National Center for Agricultural Research on Rice and Beans, EMBRAPA, Goiânia, Goiás, Brazil
CNPS	National Center for Agricultural Research on Soybeans, EMBRAPA, Londrina, Paraná, Brazil
CP	Strains isolated during joint US-Brazil program funded by US-AID to study fungal biocontrol of the insect pests of cowpeas
DAOM	National Mycological Herbarium, Centre for Land and Biological Resources Research, Agriculture Canada, Central Experimental Farm, Ottawa, Ontario, K1A 0C6, Canada
DAR	New South Wales Department of Agriculture, Rydalmere, NSW, Australia
EFCC	Korean Entomopathogenic Fungal Collection (JM Sung, Curator), Dept. of Agricultural Biology, Kangwon National University, Chuncheon, Rep. of Korea
FI	CSIRO Entomology Division, Collection of Entomopathogenic Fungi, Black Mountain Laboratories, Canberra, ACT, Australia. This collection, formerly curated by R. Milner, is now orphaned and is being transferred to ARSEF.
FPMI	Great Lakes Forestry Center (formerly Forest Pest Management Institute), 1219 Queen Street East, Sault Ste. Marie, Ontario P6A 5M7, Canada. This collection, formerly led by D MacLeod and D Tyrrell is orphaned and endangered. Its surviving isolates <i>may</i> be

transferred to DAOM.

GCRI	Horticulture Research International (formerly, Glasshouse Crops Research Institute), Worthing Road, Littlehampton, W. Sussex BN17 6LP, England, UK
HACC	Hindustan Antibiotics Ltd., Pimpri, Poona, India
IMI	(Now incorporated in United Kingdom National Culture Collection [UKNCC]) CABI Bioscience, Bakeham Lane, Egham, Surrey TW20 9TY, UK
INRA	Station de Recherches de lutte Biologique et Biocoenotique, INRA (Institut National de la Recherche Agronomique), La Minière – 78280 Guyancourt, France
IPLB	Unité de Lutte Biologique, Institut Pasteur, 28 Rue de Dr. Roux, 75724 Paris, France
IRRI	International Rice Research Institute, P.O. Box 933, Manila, Philippines
KEFC	(see EFCC)
KSU	Kansas State University, Department of Entomology, Manhattan, Kansas 66506, USA
MAF	Ministry of Agriculture and Fisheries, Canterbury Agriculture and Science Centre, Ellesmere Junction Road, P.O. Box 24, Lincoln, New Zealand
MU	Miami University, Willard Sherman Turrell Herbarium, Department of Botany, 79 Upham Hall, Oxford, Ohio 45056, USA
NCTC	National Collection of Type Cultures, Public Health Laboratory Service, 61 Colindale Ave., London NW9 5HT, England, UK
NRRL	ARS Culture Collection, USDA-ARS National Center for Agricultural Utilization Research, 1815 N. University, Peoria, Illinois 61604, USA
PSU	<i>Fusarium</i> Research Center, The Pennsylvania State University, 216 Buckhout Laboratory, University Park, Pennsylvania 16802, USA
QEC	Queen Elizabeth College, University of London, Department of Biology, Campden Hill Road, London W8 7AH, England, UK
QM	U.S. Army Natick Laboratories (formerly, Quartermaster Research and Development Center), Natick Massachusetts. Note: This collection has been transferred to NRRL.
RSA	Rancho Santa Ana Botanic Garden, 1500 North College Ave., Claremont, California 91711, USA
SBI	Sugarcane Breeding Institute, Indian Council of Agricultural Research, Coimbatore – 641 007, Tamil Nadu, India
UAF	University of Arkansas, Department of Entomology, 321 Agriculture Building, Fayetteville, Arkansas 72701, USA
UAMH	University of Alberta Microfungus Collection, Devonian Botanic Garden, University of Alberta, Alberta T6G 2H7, Canada

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Acremonium alternatum *Beauveria* sp.

Acremonium alternatum Link : Fries [Sordariomycetes: Hypocreales]

7282 FE Vega (CBB9-2). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 8 Jan 2004. Colombia: Chinchiná, Caldas.

Acremonium furcatum F&R Moreau ex Gams [Sordariomycetes: Microascales] Microascales

1372 TJ Poprawski (083). Egg, *Hypera postica* [Coleoptera: Curculionidae]. 21 Jun 1983. France: Choisy-en-Brie, Haute-Savoie.

Aphanocladium album (Preuss) Gams [Sordariomycetes: Hypocreales] Nectriaceae

1329 TJ Poprawski (085). Egg, *Hypera postica* [Coleoptera: Curculionidae]. 5 Jun 1983. France: Chichery.

Aspergillus sp. [Eurotiomycetes: Eurotiales] Trichocomaceae

6571 LS Bauer. Egg mass, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Rec'd 23 May 2000. USA: from laboratory colony, USDA Forest Service, NCFS, East Lansing, Michigan.

7048 TM O'Neil and DW Spurgeon. *Anthonomus grandis* [Coleoptera: Curculionidae]. Rec'd 12 Aug 2002. USA: Southern Plains Agricultural Research Center, College Station, Texas.

Aspergillus flavus Link:Fries [Eurotiomycetes: Eurotiales] Trichocomaceae

6454 Z G/Tsadik (5/03-BB). *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. 3 Oct 1999. Ethiopia: Northern Shoa.

6469 LS Bauer (2UIC1817). Larva, *Anoplophora glabripennis* [Coleoptera: Cerambycidae] from laboratory colony, USDA Forest Service, NCFS. Rec'd 19 Feb 2000. USA: East Lansing, Michigan.

9381 DI Shapiro Ilan. *Tenebrio molitor* [Coleoptera: Tenebrionidae] for rearing of entomopathogenic nematodes. Rec'd 6 Jan 2010.

Aspergillus nidulans(?) (Eidam) Winter [Eurotiomycetes: Eurotiales] Trichocomaceae

6515 RT Mayer. Larva, *Diaprepes abbreviata* [Coleoptera: Curculionidae]. Rec'd 10 May 2000. USA: Florida.

Aspergillus parasiticus Speare [Eurotiomycetes: Eurotiales] Trichocomaceae

2173 MC Rombach (140486-1) ← H Beddu Rewa. [Coleoptera: Curculionidae] on palm tree. 22 Mar 1986.

Indonesia: Baritiwurung (Butterfly Valley), nr. Ujungpandang, Sulawesi Selatan, Celebes.

Batkoia sp.

[Entomophthoromycotina: Entomophthorales]
Entomophthoraceae

5810 RA Humber. [Coleoptera: Cantharidae]. 9 Aug 1998. Denmark.

Beauveria sp.

[Sordariomycetes: Hypocreales]
Cordycipitaceae. Almost all strains listed here closely resemble *B. bassiana* (or *B. brongniartii*) but were not so identified because of small (and possibly insignificant) differences in conidia size and/or shape.

547 VA Dyck. *Pachybrachis pallicornis* [Coleoptera: Chrysomelidae]. Acc'd 17 Sep 1986. Malaysia.

1327 TJ Poprawski (082). Egg, *Hypera postica* [Coleoptera: Curculionidae]. 16 May 1983. France: Saint-Laurent, Vosges.

1681 M Shimazu (F-333). *Shirahoshizo insidiosus* [Coleoptera: Curculionidae]. 27 Jan 1982. Japan: Takao, Tokyo Prefecture.

1682 M Shimazu (F-357(11)). *Anomala cuprea* [Coleoptera: Scarabaeidae]. 20 Nov 1980. Japan: Nagano Prefecture.

1835 SB Alves (295). *Anthonomus grandis* [Coleoptera: Curculionidae]. Rec'd 21 Jan 1985. Brazil.

2412 K Narayanan (9). *Xyloryctes jamaicensis* [Coleoptera: Scarabaeidae]. Acc'd 6 May 1987. India.

4027 T Steenberg (231) ← CW Riedel. *Coccinella septempunctata* [Coleoptera: Coccinellidae]. Nov 1990. Denmark: Slangerup, Zealand.

4390 LA Lacey (94132). *Popillia japonica* [Coleoptera: Scarabaeidae]. 27 Apr 1994. Japan: Sapporo, Hokkaido.

4391 LA Lacey (94133). *Popillia japonica* [Coleoptera: Scarabaeidae]. 27 Apr 1994. Japan: Sapporo, Hokkaido.

4392 LA Lacey (94134). *Popillia japonica* [Coleoptera: Scarabaeidae]. 27 Apr 1994. Japan: Sapporo, Hokkaido.

4853 JM Sung (C-332). Adult, [Coleoptera: Coccinellidae]. Jul 1994. Republic of Korea: KNU experiment Forest, Kangwon National University.

4909 LA Lacey (95011). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.

4910 LA Lacey (95012). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.

4911 LA Lacey (95013). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.

- 4912 LA Lacey (95014). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4913 LA Lacey (95015). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4914 LA Lacey (95016). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4915 LA Lacey (95017). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4916 LA Lacey (95018). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4917 LA Lacey (95019). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4918 LA Lacey (95020). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 5186 S Gouli (GA-96). [Coleoptera: Lampyridae]. 2 Jun 1995. USA: Motyka's sugar maple stand, Williamstown, Vermont.
- 5622 I Vänninen (SF85-2). Larva, *Tribolium castaneum* [Coleoptera: Tenebrionidae] as bait from soil. 18 Jul 1985. Finland: Pernaja.
- 5678 BL Parker (SPT-020). [Coleoptera: Coccinellidae]. 19 Jan 1998. Turkey: Karadao Mountain, Yavuzeli, Gaziantep.
- 5697 JM Sung (KEFC-1105). [Coleoptera]. 28 Jun 1997. Republic of Korea: Mt. Gyaeryong, Chungnam Province.
- 5831 BL Parker (SPT 003). [Coleoptera]. 17 Jan 1998. Turkey: Karabiyikli, Narli, Kahraman Maras.
- 5833 BL Parker (SPT 013/1). [Coleoptera: Coccinellidae]. 18 Jan 1998. Turkey: Hursit Mt., Gaziantep, Gaziantep.
- 7463 [CEP 061] C López Lastra. [Coleoptera: Curculionidae] on *Eryngium* sp. (Apiaceae). 13 Jul 2004. Argentina: San Vicente, Buenos Aires.
- 7580 [SRCAMB B-22] V Likhovidov ← BA Borisov. Larva, [Coleoptera: Elateridae] Isolated from stroma of *Cordyceps* sp. 28 Jul 2001. Russian Federation: Kedrovaya Pad Nature Reserve, Primorsky Krai. Field Collection Number F-172.
- 7591 [SRCAMB B-182] V Likhovidov ← BA Borisov. [Coleoptera: Coccinellidae]. Aug 2002. Russian Federation: Lazovsky Nature Reserve, Primorsky Krai. Field Collection Number F-173.
- 7595 [SRCAMB B-405] V Likhovidov ← BA Borisov. [Coleoptera]. Oct 1990. Ukraine: Kherson Oblast. Field Collection Number F-207.
- 8110 LS Bauer and H Liu (MF-101). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 3 Mar 2003. USA: Northville, Michigan.
- 8111 LS Bauer and H Liu (MF-102). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 3 Mar 2003. USA: Northville, Michigan.
- 8112 LS Bauer and H Liu (MF-201). Pre-pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 4 Dec 2005. USA: Brighton, Michigan.
- 8113 LS Bauer and H Liu (MF-202). Pre-pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 14 Dec 2005. USA: Brighton, Michigan.
- 8116 LS Bauer and H Liu (MF-205). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 14 Dec 2005. USA: Brighton, Michigan.
- 8117 LS Bauer and H Liu (MF-206). Pre-pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 14 Dec 2005. USA: Brighton, Michigan.
- 8119 LS Bauer and H Liu (MF-209). Pre-pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 23 Jan 2006. USA: Brighton, Michigan.
- 8120 LS Bauer and H Liu (MF-210). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 23 Jan 2006. USA: Brighton, Michigan.
- 8121 LS Bauer and H Liu (MF-211). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 23 Jan 2006. USA: Brighton, Michigan.
- 8122 LS Bauer and H Liu (MF-212). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 23 Jan 2006. USA: Brighton, Michigan.
- 8123 LS Bauer and H Liu (MF-213). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 16 Dec 2005. USA: Brighton, Michigan.
- 8124 LS Bauer and H Liu (MF-214). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 2 Feb 2006. USA: Brighton, Michigan.
- 8125 LS Bauer and H Liu (MF-215). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 5 Mar 2006. USA: Brighton, Michigan.
- 8126 LS Bauer and H Liu (MF-216). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 5 Mar 2006. USA: Brighton, Michigan.
- 8127 LS Bauer and H Liu (MF-217). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 5 Mar 2006. USA: Brighton, Michigan.
- 8128 LS Bauer and H Liu (MF-218). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 5 Mar 2006. USA: Brighton, Michigan.
- 8129 LS Bauer and H Liu (MF-219). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 5 Mar 2006. USA: Brighton, Michigan.
- 8130 LS Bauer and H Liu (MF-220). Pre-pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 1 Dec 2005. USA: Ann Arbor, Michigan.
- 8132 LS Bauer and H Liu (MF-222). Pre-pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 1 Dec 2005. USA: Ann Arbor, Michigan.

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Beauveria sp.

- 8175 LS Bauer and H Liu (MF-268). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Summer 2006. USA: Lansing, Michigan.
- 8176 LS Bauer and H Liu (MF-270). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Summer 2006. USA: Lansing, Michigan.
- 8177 LS Bauer and H Liu (MF-271). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Summer 2006. USA: Lansing, Michigan.
- 8178 LS Bauer and H Liu (MF-272). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 10 Aug 2006. USA: Lansing, Michigan.
- 8180 LS Bauer and H Liu (MF-274). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Summer 2006. USA: Lansing, Michigan.
- 8181 LS Bauer and H Liu (MF-276). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Summer 2006. USA: Lansing, Michigan.
- 8182 LS Bauer and H Liu (MF-279). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Summer 2006. USA: Lansing, Michigan.
- 8185 LS Bauer and H Liu (MF-283). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Summer 2006. USA: Lansing, Michigan.
- 8186 LS Bauer and H Liu (MF-284). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Summer 2006. USA: Lansing, Michigan.
- 8187 LS Bauer and H Liu (MF-285). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Summer 2006. USA: Lansing, Michigan.
- 8188 LS Bauer and H Liu (MF-286). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Summer 2006. USA: Lansing, Michigan.
- 8250 P Narayanasamy. Adult, *Basilepta fulvicornis* [Coleoptera: Chrysomelidae] on *Elettaria cardamomum* (L.) Maton, cardamom crop. 30 Aug 2006. India: Tamil Nadu.
- 9272 Z Demirbag and E Tanyeli (Dm-6). *Dendroctonus micans* [Coleoptera: Scolytidae]. 24 Oct 2008. Turkey: Maçka-Zigana, Trabzon.

Beauveria amorpha (von Hoehnel) Minnick, SA Rehner & Humber
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Replaces *B. amorpha* (von Hoehnel) Samson & Evans.

- 1676 M Shimazu (F-77). *Anomala costata* [Coleoptera: Scarabaeidae]. 11 Oct 1971. Japan: Daimon, Nagano Prefecture.
- 1680 M Shimazu (F-313). *Psacothaea hilaris* [Coleoptera: Cerambycidae]. Oct 1981. Japan: Takao, Tokyo Prefecture.
- 1969 KV Raman. *Premnotrypes suturicallus* [Coleoptera: Curculionidae]. 1985. Peru: Andes Mountains. Identification verified genomically.

4149 [DAT 142] AC Rath (F142). Pre-pupa, *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 23 Jun 1989. Australia: Glen Morey, Woodbury, Tasmania. Identification verified genomically.

4990 LA Lacey (95048). Adult, *Popillia japonica* [Coleoptera: Scarabaeidae]. 7 Sep 1995. Azores: Teceira.

Beauveria amorpha(?) (van Hoehnel) Samson & HC Evans
[Sordariomycetes: Hypocreales]
Cordycipitaceae

6827 TL Dubois (WU 20 (2)). *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. 25 Jul 2000. PR China: Wuhe, Anhui.

Beauveria asiatica SA Rehner & Humber
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Defined primarily by genotypic characters

4384 LA Lacey (94135). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 5 May 1994. China: Cangzhou. Identification verified genomically.

4474 LA Lacey (94152). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou. Identification verified genomically.

Beauveria bassiana (Balsamo-Crivelli) Vuillemin
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Major synonym: *Beauveria densa* (Link:Fries) Picard

149 M Wojciechowska (28). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Rec'd 18 Jul 1977. France.

150 M Wojciechowska (24). [Coleoptera: Elateridae]. Rec'd 18 Jul 1977. France.

157 M Wojciechowska (1110). *Anthicus floralis* [Coleoptera: Anthicidae]. Rec'd 18 Jul 1977. Poland.

201 JD Vandenberg. *Diabrotica undecimpunctata* [Coleoptera: Chrysomelidae] on greenbeans. 22 Oct 1977. USA: greenhouse, Corvallis, Oregon. Mycotech's GHA (US Patent 5,939,065; 17 Aug 1999), the active ingredient in Mycotrol products, is a reisolate of this strain.

252 C Madore. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 14 Sep 1978. USA: greenhouse, Orono, Maine.

293 DW Roberts ← CW McCoy. [Coleoptera]. Acc'd 4 Jan 1979. Location not specified.

301 DW Roberts ← B Schaefferberg. [Coleoptera]. Acc'd 23 Mar 1979. Poland.

317 RA LeBrun. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Rec'd 27 Feb 1979. USA: Rhode Island.

318 RA LeBrun. [Coleoptera: Cerambycidae]. Rec'd 27 Feb 1979. USA: Rhode Island.

- 319 RA LeBrun. [Coleoptera: Cerambycidae]. Rec'd 27 Feb 1979. Mexico.
- 325 [CSIRO FI49] RS Soper. [Coleoptera: Nitidulidae] on maize. 14 Feb 1979. Australia: Atherton, Queensland.
- 336 C Russel. *Chalcodermus aeneus* [Coleoptera: Curculionidae]. 25 Aug 1978. USA: Georgia.
- 337 C Russel. *Chalcodermus aeneus* [Coleoptera: Curculionidae]. 25 Aug 1978. USA: Georgia.
- 340 DW Roberts ← G Zimmermann. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 1965. Germany: Darmstadt, Hesse.
- 344 J Lindegren. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 8 Feb 1979. USA: Yakima, Washington.
- 350 IM Abalis. [Coleoptera]. Acc'd 8 Jun 1979. USA: Ithaca, New York.
- 353 C Gordon. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. May 1978. USA: laboratory colony, Orono, Maine.
- 384 INRA. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Rec'd Sep 1979. France.
- 412 CW McCoy. *Diaprepes abbreviata* [Coleoptera: Curculionidae]. 27 Jul 1979. USA: Apopka, Florida.
- 413 CW McCoy. *Araecerus fasciculatus* [Coleoptera: Anthribidae]. 8 May 1979. USA: Fruitland Park, Florida.
- 416 CW McCoy. *Diaprepes abbreviata* [Coleoptera: Curculionidae]. 20 Jul 1979. USA: Apopka, Florida.
- 433 *Diaprepes abbreviata* [Coleoptera: Curculionidae]. 14 Jan 1980. Location not specified.
- 504 RS Soper. [Coleoptera: Chrysomelidae]. 12 Aug 1980. Yugoslavia: orchard behind bus station, Zabari, Serbia.
- 505 RA Humber. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 14 Aug 1980. Yugoslavia: potato field at road marker 119 on M22, nr. Srbobran.
- 506 RA Humber and RS Soper. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae] on potato. 14 Aug 1980. Yugoslavia: road marker 82 on M22, nr. Srbobran, Freketic.
- 507 C Sidor and RS Soper. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae] on potato. 16 Aug 1980. Yugoslavia: between Putnici and Indjija.
- 509 C Sidor. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae] on potato. 18 Aug 1980. Yugoslavia: nr. Varazdin by transformer in field, Nedeljanec, Croatia.
- 510 RA Humber and RS Soper. Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae] on potato. 26 Aug 1980. Yugoslavia: Forestry Inst. Nursery, E of Pec, nr. Crno Brdo.
- 534 MG Ward. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Rec'd Oct 1980. USA: established laboratory colony, Boyce Thompson Institute, Ithaca, New York.
- 535 MG Ward. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Rec'd Oct 1980. USA: newly established laboratory colony, Boyce Thompson Institute, Ithaca, New York.
- 721 TB Clark. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Feb 1982. Colombia: ?CIAT, Cali, Valle del Cauca.
- 731 [CNPAF 81-11-25-05; CP 5] RA Daoust. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 25 Nov 1981. Brazil: Costa do Surubim, Cristo Rei, Amazonas.
- 732 [CNPAF 81-11-25-07; CP 6] RA Daoust. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 25 Nov 1981. Brazil: Costa do Surubim, Cristo Rei, Amazonas.
- 733 [CNPAF 82-1-6-01; CP 7] RA Daoust. *Chalcodermus aeneus* [Coleoptera: Curculionidae]. 6 Jan 1982. Brazil: CNPAF, Goiânia, Goiás.
- 734 [CNPAF 82-1-6-03; CP 9] RA Daoust ← G Pereira Rios. *Chalcodermus aeneus* [Coleoptera: Curculionidae]. 6 Jan 1982. Brazil: CNPAF, Goiânia, Goiás.
- 735 [CNPAF 82-1-15-02; CP 14] RA Daoust. *Chalcodermus aeneus* [Coleoptera: Curculionidae]. Jan 1982. Brazil: CNPAF, Goiânia, Goiás.
- 736 [CNPAF 82-1-6-04; CP 10] RA Daoust ← G Pereira Rios. *Chalcodermus aeneus* [Coleoptera: Curculionidae]. 6 Jan 1982. Brazil: CNPAF, Goiânia, Goiás.
- 738 [CNPAF 82-2-9-01; CP 23] RA Daoust. *Chalcodermus aeneus* [Coleoptera: Curculionidae]. 9 Feb 1982. Brazil: CNPAF, Goiânia, Goiás.
- 739 [CNPAF 82-2-3-01; CP 27] RA Daoust. *Diabrotica paranaensis* [Coleoptera: Chrysomelidae]. 3 Feb 1982. Brazil: CNPAF, Goiânia, Goiás.
- 751 P Jolivet. [Coleoptera: Chrysomelidae]. Apr 1982. Vietnam: Cuc Phuong Forest. Identification verified genomically.
- 752 [CNPAF 82-2-15-01; CP 34] RA Daoust. *Diabrotica paranaensis* [Coleoptera: Chrysomelidae]. Feb 1982. Brazil: CNPAF, Goiânia, Goiás.
- 753 [CNPAF 82-3-24-01; CP 36] RS Soper. *Aracanthus* sp. [Coleoptera: Curculionidae]. 24 Mar 1982. Brazil: Brejo Santo, Ceará.
- 754 [CNPAF 82-4-4-01; CP 38] RA Daoust. [Coleoptera]. 4 Apr 1982. Brazil: CNPAF, Goiânia, Goiás.
- 756 [CNPAF 81-11-25-04; CP 4] RA Daoust. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 25 Nov 1981. Brazil: Costa do Surubim, Cristo Rei, Amazonas.
- 757 [CNPAF 82-3-23-01; CP 35] RA Daoust. [Coleoptera: Tenebrionidae]. 23 Mar 1982. Brazil: Missão Velha, Ceará.
- 758 [CNPAF 82-3-1-03; CP 29] RA Daoust. *Diabrotica paranaensis* [Coleoptera: Chrysomelidae]. 1 Mar 1982. Brazil: CNPAF, Goiânia, Goiás.
- 783 [CNPAF 82-5-6-02; CP 59] RA Daoust ← JPP de Araújo. Adult, [Coleoptera: Tenebrionidae]. 6 May 1982. Brazil: Barbalha, Ceará.

- 784 [CNPAF 82-4-30-01C; CP 47] RA Daoust and JPP de Araújo. Adult, [Coleoptera: Elateridae]. 30 Apr 1982. Brazil: Novo Oriente, Ceará.
- 785 [CNPAF 82-4-29-01; CP 46] RA Daoust. Adult, [Coleoptera: Cerambycidae]. 29 Apr 1982. Brazil: Caucaia, Ceará.
- 786 [CNPAF 82-5-3-03B; CP 51] RA Daoust and FE de Araújo. *Crimissa* sp. [Coleoptera: Chrysomelidae]. 3 May 1982. Brazil: 20 km N of Pacajus, Ceará.
- 787 [CNPAF 82-5-6-01; CP 58] RA Daoust ← JPP de Araújo. Adult, [Coleoptera: Tenebrionidae]. 6 May 1982. Brazil: Barbalha, Ceará.
- 788 [CNPAF 82-5-3-03A; CP 50] RA Daoust and FE de Araújo. *Crimissa* sp. [Coleoptera: Chrysomelidae]. 3 May 1982. Brazil: 20 km N of Pacajus, Ceará.
- 804 [CNPAF 82-4-30-01D; CP 48] RA Daoust and JPP de Araújo. Adult, [Coleoptera: Elateridae]. 30 Apr 1982. Brazil: Novo Oriente, Ceará.
- 805 [CNPAF 82-5-3-01; CP 49] RA Daoust ← LS Teixeira. *Crimissa* sp. [Coleoptera: Chrysomelidae]. 3 May 1982. Brazil: Pacajus, Ceará.
- 809 [CNPAF 82-6-28-01; CP 61] RA Daoust ← SM dos Santos. *Diabrotica paranaensis* [Coleoptera: Chrysomelidae]. 28 Jun 1982. Brazil: CNPAF, Goiânia, Goiás.
- 813 GG Soares (6). 6th instar larva, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. 5 Mar 1982. France: Plougastel-Daoulas, Finistere.
- 814 GG Soares (10). 6th instar larva, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. 5 Mar 1982. France: Plougastel-Daoulas, Finistere.
- 815 GG Soares (12). 6th instar larva, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. 5 Mar 1982. France: Plougastel-Daoulas, Finistere.
- 816 GG Soares (20) ← JP Aeschlimann. 5th instar larva, *Sitona discoideus* [Coleoptera: Curculionidae]. 29 Mar 1982. France: Montpellier, Hérault.
- 842 *Metamasius* sp. [Coleoptera: Curculionidae]. Acc'd 6 Jun 1983. Colombia.
- 928 [CNPAF 82-07-27-01; CP 63] RA Daoust ← SM dos Santos. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 27 Jul 1982. Brazil: CNPAF, Goiânia, Goiás.
- 930 [CNPAF 82-12-15-02; CP 68] RA Daoust ← SM dos Santos. [Coleoptera: Curculionidae]. Dec 1982. Brazil: CNPAF, Goiânia, Goiás.
- 931 [CNPAF 82-12-20-01; CP 69] RA Daoust ← H da Silva Coelho. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 20 Dec 1982. Brazil: CNPAF, Goiânia, Goiás.
- 934 [CNPAF 83-1-25-01; CP 72] RA Daoust. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 25 Jan 1983. Brazil: CNPAF, Goiânia, Goiás.
- 937 [CNPAF 83-3-3-01; CP 76] RA Daoust ← E Ferreira. *Diabrotica paranaensis* [Coleoptera: Chrysomelidae]. 3 Mar 1983. Brazil: F. Itamaraty, Ponta Porã, Mato Grosso.
- 938 [CNPAF 83-3-3-02; CP 77] RA Daoust ← E Ferreira. *Diabrotica paranaensis* [Coleoptera: Chrysomelidae]. 3 Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 941 [CNPAF 83-03-16C; CP 82] RA Daoust and BP Magalhães. *Chalcodermus* sp. [Coleoptera: Curculionidae]. 16 Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 942 [CNPAF 83-03-16D; CP 83] RA Daoust and BP Magalhães. *Chalcodermus* sp. [Coleoptera: Curculionidae]. 16 Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 943 [CNPAF 83-03-16E; CP 84] RA Daoust and BP Magalhães. *Chalcodermus* sp. [Coleoptera: Curculionidae]. 16 Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 946 [CNPAF 83-03-15E; CP 87] RA Daoust and BP Magalhães. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 947 [CNPAF 83-03-15-M; CP 88] RA Daoust and BP Magalhães. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 948 [CNPAF 83-03-15-O; CP 89] RA Daoust and BP Magalhães. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 949 [CNPAF 83-03-15-P; CP 90] RA Daoust and BP Magalhães. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 950 [CNPAF 83-03-15-Q; CP 91] RA Daoust and BP Magalhães. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 951 [CNPAF 83-03-15B; CP 92] RA Daoust and BP Magalhães. *Cerotoma* sp. [Coleoptera: Chrysomelidae]. Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 952 [CNPAF 83-03-15H; CP 93] RA Daoust and BP Magalhães. Adult, [Coleoptera: Carabidae]. Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 953 [CNPAF 83-03-16K; CP 98] RA Daoust and BP Magalhães. *Chalcodermus* sp. [Coleoptera: Curculionidae]. 16 Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 956 [CNPAF 83-5-27; CP 101] RA Daoust ← SM dos Santos. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. 27 May 1983. Brazil: CNPAF, Goiânia, Goiás.
- 958 [CNPAF 83-01-06A (CB 97); CP 104] RA Daoust ← SM de Carvalho. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 6 Jan 1983. Brazil: Londrina, Paraná.
- 982 [CNPAF 83-03-17B; CP 95] RA Daoust and BP Magalhães. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. 17 Mar 1983. Brazil: Ponta Porã, Mato Grosso.

- 1016 ME McGiffen. *Conotrachelus nenuphar* [Coleoptera: Curculionidae]. Nov 1983. Location not specified.
- 1039 L Allee. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1983. USA: control plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1041 J Aoki (Isa. 1) ← S Miyajima. *Psacothea hilaris* [Coleoptera: Cerambycidae]. Oct 1981. Japan: Nagakute, Aichi Prefecture.
- 1060 [CNPS 31] F Moscardi. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 1983. Brazil: Londrina, Paraná.
- 1061 [CNPS 32] F Moscardi ← Francisco. [Coleoptera: Curculionidae]. 1983. Brazil: Londrina, Paraná.
- 1073 TJ Poprawski (83-48). Adult, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Jul 1983. France: tree nursery containers, Les Thilliers-en-Vexin, Eure.
- 1074 TJ Poprawski (83-49). Adult, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Jul 1983. France: tree nursery containers, Les Thilliers-en-Vexin, Eure.
- 1075 TJ Poprawski (83-54). 6th instar larva, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. 21 Jul 1983. France: tree nursery containers, Les Thilliers-en-Vexin, Eure.
- 1079 *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Acc'd Feb 1984. USA: Washington.
- 1081 L Allee. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1983. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1106 KV Deseö (25) ← Chianella. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Feb 1982. Italy: Sicily.
- 1153 TJ Poprawski (074). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Jan 1984. Morocco: Jramma.
- 1154 TJ Poprawski (072). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 25 Jan 1984. Morocco: Jramma.
- 1155 TJ Poprawski (073). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Jan 1984. Morocco: Jramma.
- 1156 TJ Poprawski (83-639). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. 22 Oct 1983. France: Guyancourt, Yvelines.
- 1157 TJ Poprawski (83-619). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Oct 1983. France: Senneville.
- 1158 TJ Poprawski (83-634). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Vernon, Eure.
- 1159 TJ Poprawski (83-615). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Oct 1983. France: Senneville.
- 1160 TJ Poprawski (83-614). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Oct 1983. France: Senneville.
- 1161 TJ Poprawski (83-626). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Mantes-la-Jolie, Yvelines.
- 1162 TJ Poprawski (83-623). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Limay, Yvelines.
- 1163 TJ Poprawski (071A). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Jan 1984. Morocco: Jramma.
- 1164 TJ Poprawski (070). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Jan 1984. Morocco: Jramma.
- 1165 TJ Poprawski (83-621). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Oct 1983. France: Senneville.
- 1167 TJ Poprawski (83-701). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Nov 1983. France: Senneville.
- 1168 TJ Poprawski (83-702). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. 10 Oct 1983. France: Senneville.
- 1169 TJ Poprawski (83-703). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Senneville.
- 1170 TJ Poprawski (83-704). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. 23 Nov 1983. France: Senneville.
- 1171 TJ Poprawski (A2). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Feb 1984. Morocco: Achouria.
- 1172 TJ Poprawski (A4). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Feb 1984. Morocco: Achouria.
- 1173 TJ Poprawski (A5). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 16 Feb 1984. Morocco: Achouria.
- 1174 TJ Poprawski (A6). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Feb 1984. Morocco: Achouria.
- 1175 TJ Poprawski (A7). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 10 Feb 1984. Morocco: Achouria.
- 1176 TJ Poprawski (J1). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Jan 1984. Morocco: Jorf.
- 1177 TJ Poprawski (J2). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Jan 1984. Morocco: Jorf.
- 1178 TJ Poprawski (J3). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 7 Feb 1984. Morocco: Jorf.
- 1179 TJ Poprawski (J4). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 2 Dec 1983. Morocco: Jorf.
- 1180 TJ Poprawski (J5). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 2 Dec 1983. Morocco: Jorf.
- 1181 TJ Poprawski (J6). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 10 Feb 1984. Morocco: Jorf.

- 1182 TJ Poprawski (83-616). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Senneville.
- 1183 TJ Poprawski (J7). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 16 Feb 1984. Morocco: Jorf.
- 1185 [INRA Bb-142] TJ Poprawski. *Sitona discoideus* [Coleoptera: Curculionidae]. May 1977. France: Viols-le-Fort, Hérault.
- 1186 [INRA Bb-195] TJ Poprawski. Adult, *Caryedon serratus* [Coleoptera: Bruchidae]. 6 Jun 1983. France: La Minière.
- 1188 TJ Poprawski (E1). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Feb 1984. Morocco: Elbaya.
- 1189 TJ Poprawski (A1). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Feb 1984. Morocco: Achouria.
- 1190 TJ Poprawski (A3). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Feb 1984. Morocco: Achouria.
- 1191 TJ Poprawski (645). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Dec 1983. France: Orléans, Loiret.
- 1192 TJ Poprawski (646). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Anet, Eure-et-Loir.
- 1193 TJ Poprawski (647). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Ecos, Eure.
- 1194 TJ Poprawski (648). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Meulan, Yvelines.
- 1306 TJ Poprawski (83-611). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Oct 1983. France: Senneville.
- 1309 TJ Poprawski (A8). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Feb 1984. Morocco: Achouria.
- 1311 TJ Poprawski (A10). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Feb 1984. Morocco: Achouria.
- 1312 TJ Poprawski (A11). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Feb 1984. Morocco: Achouria.
- 1313 TJ Poprawski (A12). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Feb 1984. Morocco: Achouria.
- 1389 TJ Poprawski (088). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 16 May 1984. France: Baron.
- 1398 TJ Poprawski (086). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 16 May 1984. France: Marsanne, Drôme.
- 1399 TJ Poprawski (087). Adult, *Hypera postica* [Coleoptera: Curculionidae]. Mar 1984. France: Marsanne, Drôme.
- 1450 [CNPAF 52; CP 125] F Moscardi. *Sternechus sub-signatus* [Coleoptera: Curculionidae]. 27 Mar 1984. Brazil: Londrina, Paraná.
- 1453 [CNPAF 84-02-30-2; CP 143] RA Daoust. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 30 Mar 1984. Brazil: Francisco Beltrão, Paraná.
- 1454 [CNPAF 84-03-28-1F; CP 144] RA Daoust. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 28 Mar 1984. Brazil: Cascavel, Paraná.
- 1455 [CNPAF 84-03-28-D; CP 145] RA Daoust. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 28 Mar 1984. Brazil: Cascavel, Paraná.
- 1456 [CNPAF 84-04-03-6A; CP 146] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 30 Apr 1984. Brazil: Augusto Pestana (Ijuí), Rio Grande do Sul.
- 1458 [CNPAF 84-03-28-1E; CP 148] RA Daoust. *Cerotoma* sp. [Coleoptera: Chrysomelidae]. 28 Mar 1984. Brazil: Cascavel, Paraná.
- 1459 [CNPAF 84-04-03-1E; CP 149] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 3 Apr 1984. Brazil: Augusto Pestana (Ijuí), Rio Grande do Sul.
- 1460 [CNPAF 84-04-03-1B; CP 150] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 3 Apr 1984. Brazil: Augusto Pestana (Ijuí), Rio Grande do Sul.
- 1461 [CNPAF 84-03-29-1; CP 151] RA Daoust. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 29 Mar 1984. Brazil: Capitão Leônidas Marques, Paraná.
- 1462 [CNPAF 84-03-28-1G; CP 152] RA Daoust. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 28 Mar 1984. Brazil: Cascavel, Paraná.
- 1463 [CNPAF 84-03-28-1L; CP 153] RA Daoust. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 28 Mar 1984. Brazil: Cascavel, Paraná.
- 1464 [CNPAF 84-04-03-6B; CP 154] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 3 Apr 1984. Brazil: Augusto Pestana (Ijuí), Rio Grande do Sul.
- 1465 [CNPAF 84-04-03-1A; CP 155] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 3 Apr 1984. Brazil: Augusto Pestana (Ijuí), Rio Grande do Sul.
- 1466 [CNPAF 84-03-31-6; CP 156] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 31 Mar 1984. Brazil: Sto. Antonio do Sudoeste, Paraná.
- 1467 [CNPAF 84-04-02-5A; CP 157] RA Daoust and BP Magalhães. *Cerotoma* sp. [Coleoptera: Chrysomelidae]. 2 Apr 1984. Brazil: São Carlos, Santa Catarina.
- 1469 [CNPAF 84-03-31-2; CP 159] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 31 Mar 1984. Brazil: Sto. Antonio do Sudoeste, Paraná.

- 1470 [CNPAF 84-04-02-3; CP 160] RA Daoust, BP Magalhães and M Pinat. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 2 Apr 1984. Brazil: Chapecó, Santa Catarina.
- 1471 [CNPAF 84-04-02-4; CP 161] RA Daoust, BP Magalhães and M Pinat. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 2 Apr 1984. Brazil: Chapecó, Santa Catarina.
- 1472 [CNPAF 84-04-02-2; CP 162] RA Daoust, BP Magalhães and M Pinat. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 2 Apr 1984. Brazil: Chapecó, Santa Catarina.
- 1473 [CNPAF 84-04-02-1B; CP 163] RA Daoust, BP Magalhães and M Pinat. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 2 Apr 1984. Brazil: Chapecó, Santa Catarina.
- 1475 [CNPAF 84-04-03-1C; CP 165] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 3 Apr 1984. Brazil: Augusto Pestana (Ijuí), Rio Grande do Sul.
- 1476 [CNPAF 84-04-25-1; CP 166] SM dos Santos. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 25 Apr 1984. Brazil: CNPAF, Goiânia, Goiás.
- 1480 SB Alves (252). *Hypothenemus hampei* [Coleoptera: Scolytidae] on coffee. Rec'd 6 Jul 1984. Brazil: São Paulo.
- 1483 SB Alves (61). *Cosmopolites sordidus* [Coleoptera: Curculionidae] on banana. Rec'd 6 Jul 1984. Brazil: Espírito Santo.
- 1491 [INRA Bb-169] GG Soares. *Sitona humeralis* [Coleoptera: Curculionidae]. Mar 1981. France: Lusignan, Vienne.
- 1509 I Majchrowicz (56) ← F Herard. Imago, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. May 1983. France: Entraigues, Vaucluse.
- 1510 I Majchrowicz (58) ← F Herard. Imago, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. May 1983. France: Entraigues, Vaucluse.
- 1511 I Majchrowicz (75) ← F Herard. Imago, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. May 1983. France: Entraigues, Vaucluse.
- 1515 TJ Poprawski (0107). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 13 Jun 1984. France.
- 1518 TJ Poprawski (0111). Adult, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. 27 Jun 1984. France: Entraigues, Vaucluse.
- 1519 TJ Poprawski (0112). Adult, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. 27 Jun 1984. France: Entraigues, Vaucluse.
- 1559 KV Deseö (88) ← Campadelli. Larva, *Aromia moschata* [Coleoptera: Cerambycidae]. Feb 1984. Italy: Solarolo.
- 1560 KV Deseö (89) ← Campadelli. *Aromia moschata* [Coleoptera: Cerambycidae]. Feb 1984. Italy: Solarolo.
- 1561 KV Deseö (90) ← Campadelli. Larva, *Aromia moschata* [Coleoptera: Cerambycidae]. Feb 1984. Italy: Solarolo.
- 1562 KV Deseö (91) ← Campadelli. Larva, *Aromia moschata* [Coleoptera: Cerambycidae]. Feb 1984. Italy: Solarolo.
- 1563 KV Deseö (92) ← Campadelli. Larva, *Aromia moschata* [Coleoptera: Cerambycidae]. Feb 1984. Italy: Solarolo.
- 1566 S Keller (D155). [Coleoptera: Scolytidae]. 14 Aug 1984. Switzerland: Siblingen, Schaffhausen.
- 1619 L Allee. Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 6 Aug 1984. USA: control plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1620 L Allee. Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 6 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1621 L Allee. Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 6 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1622 L Allee. Larva, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 27 Jul 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1623 L Allee. Larva, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 27 Jul 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1624 L Allee. Larva, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 30 Jul 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1647 TJ Poprawski (0143). Adult, *Sitona* sp. [Coleoptera: Curculionidae]. 22 Aug 1984. France: Orval, Ardennes.
- 1678 M Shimazu (F-237). *Moechotypa diphysis* [Coleoptera: Cerambycidae]. Aug 1978. Japan: Tsushima, Nagasaki Prefecture.
- 1679 M Shimazu (F-263). *Monochamus alternatus* [Coleoptera: Cerambycidae]. 25 Aug 1978. Japan: Kumamoto Prefecture.
- 1683 M Shimazu (F-359(30)). *Anomala cuprea* [Coleoptera: Scarabaeidae]. 20 Nov 1980. Japan: Nagano Prefecture.
- 1704 L Allee (84-1). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Aug 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1705 L Allee (84-3). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 8 Aug 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.

- 1706 L Allee (84-4). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 8 Aug 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1707 L Allee (84-5). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Aug 1984. USA: control plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1708 L Allee (84-7). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 8 Aug 1984. USA: control plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1709 L Allee (84-8). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 8 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1710 L Allee (84-9). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 8 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1711 L Allee (84-10). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 8 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1712 L Allee (84-11). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1713 L Allee (84-12). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1721 L Allee (84-13). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 17 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1722 L Allee (84-19). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 31 Aug 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1723 L Allee (84-20). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 31 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1749 L Allee (84-16). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 17 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1750 L Allee (84-18). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 31 Aug 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1775 L Allee (84-22). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1984. USA: control plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1776 L Allee (84-23). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1984. USA: control plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1777 L Allee (84-24). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1984. USA: insecticide-treated plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1778 L Allee (84-25). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1779 L Allee (84-26). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1780 L Allee (84-27). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1781 L Allee (84-28). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1811 TJ Poprawski (0167C). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Jorf. Identification verified genomically.
- 1815 TJ Poprawski (0165). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Jorf.
- 1816 TJ Poprawski (0166A). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Hauteban.
- 1817 TJ Poprawski (0166B). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Hauteban.
- 1818 TJ Poprawski (0166C). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Hauteban.
- 1819 TJ Poprawski (0166D). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Hauteban.
- 1820 TJ Poprawski (0167A). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Jorf.
- 1821 TJ Poprawski (0167B). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Jorf.
- 1833 SB Alves (267). *Cosmopolites* sp. [Coleoptera: Curculionidae]. Rec'd 21 Jan 1985. Brazil.
- 1848 HS Whitney (R629) ← HA Moeck. Adult, *Rhizophagus grandis* [Coleoptera: Rhizophagidae]. Sep 1984. Belgium. Identification verified genomically.

- 1849 HA Moeck and HS Whitney (R630). Adult, *Dendroctonus ponderosae* [Coleoptera: Scolytidae]. Oct 1984. Canada: Lye Lake Plot, Riske Creek, British Columbia.
- 1852 P Spencer and HS Whitney (R634). *Dryocoetes confusus* [Coleoptera: Scolytidae]. Jun 1984. Canada: Top of the World Park, British Columbia.
- 1853 HS Whitney (R636) ← HA Moeck. Larva, *Dendroctonus ponderosae* [Coleoptera: Scolytidae]. 5 Oct 1984. Canada: laboratory colony, British Columbia.
- 1854 HA Moeck and HS Whitney (R637). Adult, *Pytho* sp. [Coleoptera: Pythidae]. Oct 1984. Canada: Lye Lake Plot, Riske Creek, British Columbia.
- 1954 [CNPAF 85-7-23-1; CP 179] JC Lord and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 23 Jul 1985. Brazil: Santana do Ipanema, Alagoas.
- 1956 [CNPAF 85-7-22; CP 181] JC Lord and BP Magalhães. *Coleomegilla maculata* [Coleoptera: Coccinellidae]. 22 Jul 1985. Brazil: União dos Palmares, Alagoas.
- 1961 [CNPAF 85-7-24-4; CP 187] JC Lord and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 24 Jul 1985. Brazil: Ribeira do Pombal, Bahia.
- 1966 [CP 168] D Gabriel. *Anthonomus grandis* [Coleoptera: Curculionidae]. 1983. Brazil: Fazenda St. Genebra, Campinas, São Paulo.
- 1971 [ARSEF 1451 (deaccessioned); CNPAF 84-3-12; CP 124] H da Silva Coelho. [Coleoptera: Chrysomelidae]. 12 Mar 1984. Brazil: CNPAF, Goiânia, Goiás.
- 1975 TJ Poprawski (0178). Adult, [Coleoptera: Carabidae]. Acc'd 25 Sep 1985. France: Saint-Genis de Saintonge, Charente-Maritime.
- 1980 TJ Poprawski (0183). Adult, [Coleoptera]. Acc'd 25 Sep 1985. France: Saint-Genis de Saintonge, Charente-Maritime.
- 1982 TJ Poprawski (0185). Egg, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Acc'd 25 Sep 1985. France: La Repara.
- 2010 CIRPON ← M Yasem de Romero. *Cycloneda sanguinea* [Coleoptera: Coccinellidae]. 1984. Argentina: Tucumán.
- 2030 HS Whitney (CPB-1). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Oct 1985. USA: low rate plot (2) for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 2031 HS Whitney (CPB-2). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae] in soil. Oct 1985. USA: low rate plot (2) for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 2032 HS Whitney (CPB-3). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae] in soil. Oct 1985. USA: low rate plot (2) for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 2033 HS Whitney (LBB-multi). *Coccinella* sp. [Coleoptera: Coccinellidae]. Oct 1985. USA: low rate plot (2) for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 2034 HS Whitney (LBB-multi 2). *Coccinella* sp. [Coleoptera: Coccinellidae]. Oct 1985. USA: low rate plot (2) for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 2040 MC Rombach (171085-1) ← SB Ahn (E5-1). [Coleoptera: Curculionidae]. 17 Oct 1985. Republic of Korea.
- 2075 [CNPAF 85-7-24; CP 183] JC Lord and BP Magalhães. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 24 Jul 1985. Brazil: Ribeira do Pombal, Bahia.
- 2079 [CP 198] JC Lord and BP Magalhães. *Systena* sp. [Coleoptera: Chrysomelidae]. 1985. Brazil: CNPAF, Goiânia, Goiás.
- 2248 DA Rodriguez Sierra (106 Bb). *Premnotrypes vorax* [Coleoptera: Curculionidae]. Feb 1986. Colombia: Tibaitata, Mosquera, Nariño.
- 2249 DA Rodriguez Sierra (203 Bb). Adult, *Ancognatha scarabaeoides* [Coleoptera: Scarabaeidae]. Feb 1986. Colombia: Tibaitata, Mosquera, Nariño.
- 2250 DA Rodriguez Sierra (201 Bb). *Ancognatha scarabaeoides* [Coleoptera: Scarabaeidae]. Feb 1986. Colombia: Tibaitata, Mosquera, Nariño.
- 2270 BT Forschler (RF-2). Adult, *Cyrtepistomus castaneus* [Coleoptera: Curculionidae]. Sep 1986. USA: Robinson Forest, Univ. of Kentucky, Breathitt County, Kentucky.
- 2330 PI Espinosa Camarena. *Diabrotica virgifera* [Coleoptera: Chrysomelidae]. 1986. Mexico: Zapotlanejo, Jalisco.
- 2463 TJ Poprawski (8710). Adult, *Galerucina* sp. [Coleoptera: Chrysomelidae]. 2 Feb 1987. France: Béhoust, Yvelines.
- 2509 [CP 229] DR Sosa-Gómez. *Maecolaspis monrosi* [Coleoptera: Chrysomelidae]. 8 Apr 1986. Argentina: La Virginia, Tucumán.
- 2511 [CP 221] F Moscardi. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. Acc'd 8 Dec 1987. Brazil: CNPS, Londrina, Paraná.
- 2512 [CP 237] J Maria. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. 29 Jun 1987. Brazil: Manaus, Amazonas.
- 2515 [CP 227] DR Sosa-Gómez. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 28 Mar 1986. Argentina: Blanco Pozo, Tucumán.
- 2520 [CP 222] F Moscardi. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 1983. Brazil: CNPS, Londrina, Paraná.
- 2557 S Sandoval (95). Adult, [Coleoptera: Cerambycidae]. Acc'd 18 Mar 1988. Ecuador.

- 2559 [ARSEF 2638; CP 230] SB Alves (290). *Anthonomus grandis* [Coleoptera: Curculionidae]. Acc'd 13 Apr 1988. Brazil: ESALQ, Piracicaba, São Paulo.
- 2579 JJ Jackson. *Diabrotica barberi* [Coleoptera: Chrysomelidae]. 18 Jul 1988. USA: laboratory colony, Brookings, South Dakota.
- 2580 MD Bryan. Adult, *Coccinella septempunctata* [Coleoptera: Coccinellidae]. Jul 1988. USA: laboratory cages, field collected population, Niles, Michigan.
- 2625 [CNPAF 88-5-6; CP 240] DW Roberts ← EC de Moura. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 6 May 1988. Brazil: CNPAF, Goiânia, Goiás.
- 2626 [CNPAF 88-5-6A; CP 241] DW Roberts ← EC de Moura. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 6 May 1988. Brazil: CNPAF, Goiânia, Goiás.
- 2638 [ARSEF 2559; CP 230] DW Roberts ← SB Alves (290). *Anthonomus grandis* [Coleoptera: Curculionidae]. Rec'd 23 Nov 1988. Brazil: ESALQ, Piracicaba, São Paulo.
- 2639 DW Roberts ← SB Alves (292). *Anthonomus grandis* [Coleoptera: Curculionidae]. Rec'd 23 Nov 1988. Brazil: ESALQ, Piracicaba, São Paulo.
- 2642 DW Roberts ← SB Alves (695). *Metamasius hemipterus* [Coleoptera: Curculionidae]. Rec'd 23 Nov 1988. Brazil: Londrina, Paraná.
- 2676 WA Gardner and RD Harrison. Adult, *Curculio caryae* [Coleoptera: Curculionidae] on pecan. 25 Aug 1988. USA: Griffin, Georgia.
- 2685 [IMI 327908] C Prior (Kenya 1). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 19 Mar 1989. Kenya.
- 2686 [IMI 327909] C Prior (Kenya 2). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 19 Mar 1989. Kenya.
- 2687 [IMI 330194] C Prior (Kenya 3). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 19 Mar 1989. Kenya.
- 2688 [IMI 327910] C Prior (Togo 1). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 19 Mar 1989. Togo.
- 2689 [IMI 329064] C Prior (Togo 2). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 19 Mar 1989. Togo.
- 2690 [IMI 329065] C Prior (Togo 3). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 19 Mar 1989. Togo.
- 2691 [IMI 329066] C Prior (Togo 4). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 19 Mar 1989. Togo.
- 2692 [IMI 329067] C Prior (Togo 5). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 19 Mar 1989. Togo.
- 2693 [IMI 327906] C Prior. *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 19 Mar 1989. Mexico.
- 2695 Abbott Laboratories (89-201). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Rec'd 24 Mar 1989. Commonwealth of Independent States.
- 2938 [CP 270] SP Wraight ← R da Silva Carvalho. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. 8 Nov 1988. Brazil: CNPAF, Goiânia, Goiás.
- 2942 [CP 274] SP Wraight ← MGA de Lima. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. 28 Nov 1988. Brazil: CNPAF, Goiânia, Goiás.
- 2945 [CP 290] SP Wraight ← SB Alves. *Anthonomus grandis* [Coleoptera: Curculionidae]. 1988. Brazil: Piracicaba, São Paulo.
- 2946 [CP 281] SP Wraight ← SB Alves. *Anthonomus grandis* [Coleoptera: Curculionidae]. 1988. Brazil: Piracicaba, São Paulo.
- 2961 CENARGEN (CG 165). *Lagria vilosa* [Coleoptera: Lagriidae]. Rec'd 14 Mar 1990. Brazil: Formosa, Goiás.
- 2983 T Searle (CW1). Adult, *Listronotus oregonensis* [Coleoptera: Curculionidae]. 1988. Canada: Saint-Jean, Québec.
- 2984 T Searle (CW2). Adult, *Listronotus oregonensis* [Coleoptera: Curculionidae]. 1988. Canada: Saint-Jean, Québec.
- 2985 T Searle (CW3). Adult, *Listronotus oregonensis* [Coleoptera: Curculionidae]. 1989. Canada: Saint-Jean, Québec.
- 2986 T Searle (CW4). Adult, *Listronotus oregonensis* [Coleoptera: Curculionidae]. 1989. Canada: Saint-Jean, Québec.
- 2987 T Searle (LD1). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Summer 1988. Canada: Sainte-Clotilde, Québec.
- 2988 T Searle (LD2). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Summer 1988. Canada: Sainte-Clotilde, Québec.
- 2989 T Searle (LD3). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Summer 1988. Canada: Sainte-Clotilde, Québec.
- 2990 T Searle (LD4). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Summer 1988. Canada: Sainte-Clotilde, Québec.
- 2991 T Searle (LD5). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Summer 1988. Canada: Sainte-Clotilde, Québec.
- 3037 W Mechaber (weevil#2354). Adult, *Anthonomus musculus* [Coleoptera: Curculionidae] on *Gaylussacia baccata*. 20 May 1990. USA: Carver, Massachusetts.
- 3040 WE Jones (SHB). [Coleoptera: Scolytidae] inside macadamia nut kernel. May 1990. USA: Kona, Island of Hawaii, Hawaii.
- 3055 [MAF F6] T Glare. *Costelytra zealandica* [Coleoptera: Scarabaeidae]. Rec'd Oct 1990. New Zealand: South Island. Presumptive ID; no conidia or raches seen.
- 3063 [MAF F13] T Glare. *Sitona* sp. [Coleoptera: Curculionidae]. Rec'd Oct 1990. New Zealand: South Island.

- 3065 [MAF F28] T Glare. *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Rec'd Oct 1990. New Zealand: South Island.
- 3066 [MAF F29] T Glare. *Paropsis charybdis* [Coleoptera: Chrysomelidae]. Rec'd Oct 1990. New Zealand: South Island.
- 3070 [MAF F33] T Glare. *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. Rec'd Oct 1990. New Zealand: Christchurch, South Island.
- 3097 Fermone Corporation (FCI-7744). *Anthonomus grandis* [Coleoptera: Curculionidae]. Rec'd 18 Oct 1990. USA: Rio Grande Valley, Texas. **RESTRICTED ACCESS:** contact Curator.
- 3098 L Loch ← G Albuquerque. *Oryzophagus oryzae* [Coleoptera: Curculionidae] on rice. Rec'd 29 Oct 1990. Brazil: Pôrto Alegre, Rio Grande do Sul.
- 3111 DW Watson (P 89) ← L Meinke. *Diabrotica virgifera* [Coleoptera: Chrysomelidae]. 13 Sep 1990. USA: Mead, Nebraska.
- 3112 JK Cawthra and CJ Geden (P 89). [Coleoptera: Staphylinidae] originally from beef feed lot. 10 Sep 1990. USA: laboratory colony, Lincoln, Nebraska.
- 3197 GW Riethmacher (Bet1). [Coleoptera] on potatoes. 12 Oct 1990. Philippines: La Trinidad, Benguet.
- 3198 GW Riethmacher (Bet2). [Coleoptera] on potatoes. 12 Oct 1990. Philippines: La Trinidad, Benguet.
- 3199 GW Riethmacher (Bet3). [Coleoptera] on potatoes. 12 Oct 1990. Philippines: La Trinidad, Benguet.
- 3219 [CP 478(479?)] DW Roberts ← JM Gomes. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Rec'd 8 Feb 1991. Brazil.
- 3287 J Gutierrez Samperio (3) ← ERD Reyes. *Diabrotica* sp. [Coleoptera: Chrysomelidae] on corn. 1988. Mexico: Colima.
- 3309 J Gutierrez Samperio (25) ← ERD Reyes. *Diabrotica balteata* [Coleoptera: Chrysomelidae] on corn. 1990. Mexico: Colima.
- 3310 J Gutierrez Samperio (26) ← ERD Reyes. *Geraeus senilis* [Coleoptera: Curculionidae] on corn. 1990. Mexico: Comala, Colima.
- 3311 J Gutierrez Samperio (27) ← ERD Reyes. *Geraeus senilis* [Coleoptera: Curculionidae] on corn. 1990. Mexico: Colima.
- 3386 I Majchrowicz (23). [Coleoptera: Carabidae] nr. potato plants. 3 Jul 1991. USA: garden nr. USDA laboratory, Yakima, Washington.
- 3403 MS Goettel. *Ceuthorhynchus litura* [Coleoptera: Curculionidae]. Rec'd 6 Mar 1992. Location not specified.
- 3437 [CATIE 1] TG Zoebisch. *Notonata* sp. [Coleoptera: Chrysomelidae] on *Bixa orellana*. Rec'd 28 Oct 1991. Costa Rica: Turrialba, Cartago.
- 3438 [CATIE 2] TG Zoebisch. *Notonata* sp. [Coleoptera: Chrysomelidae] on *Bixa orellana*. Aug 1991. Costa Rica: Turrialba, Cartago.
- 3439 [CATIE 3] TG Zoebisch. *Notonata* sp. [Coleoptera: Chrysomelidae] on *Bixa orellana*. Aug 1991. Costa Rica: Turrialba, Cartago.
- 3440 [CATIE 4] TG Zoebisch. *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica*. Rec'd 28 Oct 1991. Nicaragua: Managua.
- 3441 [CATIE 5] TG Zoebisch. *Notonata* sp. [Coleoptera: Chrysomelidae] on *Bixa orellana*. Aug 1991. Costa Rica: Turrialba, Cartago.
- 3442 [CATIE 6] TG Zoebisch. *Notonata* sp. [Coleoptera: Chrysomelidae] on *Bixa orellana*. Aug 1991. Costa Rica: Turrialba, Cartago.
- 3443 [CATIE 7] TG Zoebisch. *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica*. Rec'd 28 Oct 1991. Nicaragua: Managua.
- 3444 [CATIE 8] TG Zoebisch. *Notonata* sp. [Coleoptera: Chrysomelidae] on *Bixa orellana*. Aug 1991. Costa Rica: Turrialba, Cartago.
- 3445 [CATIE 9] TG Zoebisch. *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica*. Rec'd 28 Oct 1991. Nicaragua: Managua.
- 3446 [CATIE 10] TG Zoebisch. *Notonata* sp. [Coleoptera: Chrysomelidae] on *Bixa orellana*. Aug 1991. Costa Rica: Turrialba, Cartago.
- 3447 [CATIE 11] TG Zoebisch. *Notonata* sp. [Coleoptera: Chrysomelidae] on *Bixa orellana*. Jul 1991. Costa Rica: Turrialba, Cartago.
- 3448 [CATIE 12] TG Zoebisch. *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica*. Rec'd 28 Oct 1991. Nicaragua: Managua.
- 3450 [CATIE 14] TG Zoebisch. *Notonata* sp. [Coleoptera: Chrysomelidae] on *Bixa orellana*. Jul 1991. Costa Rica: Turrialba, Cartago.
- 3451 [CATIE 15] TG Zoebisch. *Notonata* sp. [Coleoptera: Chrysomelidae] on *Bixa orellana*. Jul 1991. Costa Rica: Turrialba, Cartago.
- 3452 [CATIE 16] TG Zoebisch. *Notonata* sp. [Coleoptera: Chrysomelidae] on *Bixa orellana*. Jul 1991. Costa Rica: Turrialba, Cartago.
- 3453 [CATIE 17] TG Zoebisch. *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica*. Rec'd 28 Oct 1991. Nicaragua: Managua.
- 3455 [CATIE 19] TG Zoebisch. *Notonata* sp. [Coleoptera: Chrysomelidae] on *Bixa orellana*. Jul 1991. Costa Rica: Turrialba, Cartago.
- 3457 [CATIE 21] TG Zoebisch. [Coleoptera: Languriidae] on *Macadamia integrifolia*. Sep 1991. Costa Rica: Turrialba, Cartago.
- 3534 SM DeFazio and PD McKown (C-7). *Coccinella septempunctata* [Coleoptera: Coccinellidae]. Nov 1991. Location not specified.
- 3667 AE Hajek (BFMS). [Coleoptera: Curculionidae]. Apr 1991. USA: New York.
- 3716 RA LeBrun ← J Hanula (C-2). Adult, *Popillia japonica* [Coleoptera: Scarabaeidae]. Summer 1992. Location not specified.

- 3717 RA LeBrun ← J Hanula (C-3). *Popillia japonica* [Coleoptera: Scarabaeidae]. Summer 1991. Location not specified.
- 3818 ERD Reyes (BbCO1). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] coffee. 9 Oct 1992. Mexico: Oaxaca.
- 3819 ERD Reyes (BbCO2). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on coffee. 9 Oct 1992. Mexico: Oaxaca.
- 4001 [A Mesquita] LA Lacey (93038). *Crimissa cruralis* [Coleoptera: Chrysomelidae]. 3 May 1993. Brazil: Pacajus, Ceará.
- 4013 T Steenberg (195) ← A Kirkeby-Thomse. *Sitona lineatus* [Coleoptera: Curculionidae]. Sep 1993. Denmark: Copenhagen, Tåstrup, Zealand.
- 4015 T Steenberg (196) ← HP Ravn. *Sitona lineatus* [Coleoptera: Curculionidae]. Sep 1989. Denmark: Falster, Storstrøm.
- 4016 T Steenberg (201) ← V Langer. *Sitona lineatus* [Coleoptera: Curculionidae] on white clover. Mar 1990. Denmark: Ringsted, Zealand.
- 4018 T Steenberg (202) ← J Eilenberg. *Coccinella septempunctata* [Coleoptera: Coccinellidae]. Mar 1990. Denmark: Jægerspris, Zealand.
- 4019 T Steenberg (205) ← HP Ravn. *Sitona lineatus* [Coleoptera: Curculionidae]. Mar 1990. Denmark.
- 4021 T Steenberg (212) ← HP Ravn. *Sitona lineatus* [Coleoptera: Curculionidae] on pea. Jul 1990. Denmark: Pajbjerg, Jutland.
- 4023 T Steenberg (217). *Apion* sp. [Coleoptera: Curculionidae] on alfalfa. Oct 1990. Denmark: Copenhagen, Tåstrup, Zealand.
- 4028 T Steenberg (233) ← CW Riedel. *Tachyporus* sp. [Coleoptera: Staphylinidae]. Jan 1991. Denmark: Svanholm, Zealand.
- 4031 T Steenberg (237) ← CW Riedel. *Amara plebeja* [Coleoptera: Carabidae]. Jan 1991. Denmark: Foulum, Jutland.
- 4032 T Steenberg (238) ← CW Riedel. *Bembidion lampros* [Coleoptera: Carabidae]. Jan 1991. Denmark: Svanholm, Zealand.
- 4034 T Steenberg (240). *Amara familiaris* [Coleoptera: Carabidae]. Mar 1991. Denmark: Copenhagen, Tåstrup, Zealand.
- 4038 T Steenberg (253). *Hypera postica* [Coleoptera: Curculionidae]. Oct 1991. Denmark: Copenhagen, Tåstrup, Zealand.
- 4041 T Steenberg (261). *Sitona lineatus* [Coleoptera: Curculionidae]. Oct 1991. Denmark: Copenhagen, Tåstrup, Zealand.
- 4046 T Steenberg (276) ← V Langer. *Anotylus* sp. [Coleoptera: Staphylinidae]. Nov 1991. Denmark: Copenhagen, Tåstrup, Zealand.
- 4049 T Steenberg (298). *Hypera postica* [Coleoptera: Curculionidae]. Mar 1992. Denmark: Copenhagen, Tåstrup, Zealand.
- 4051 T Steenberg (349). *Anotylus rugosus* [Coleoptera: Staphylinidae]. Nov 1992. Denmark: Brenderup, Fyn.
- 4052 T Steenberg (355). [Coleoptera: Curculionidae]. Oct 1992. Denmark: Copenhagen, Tåstrup, Zealand.
- 4054 T Steenberg (359). *Gyrohypnus angustatus* [Coleoptera: Staphylinidae]. Oct 1992. Denmark: Copenhagen, Tåstrup, Zealand.
- 4055 T Steenberg (362). [Coleoptera: Staphylinidae]. Oct 1992. Denmark: Brenderup, Fyn.
- 4056 T Steenberg (365). *Anotylus rugosus* [Coleoptera: Staphylinidae]. Oct 1992. Denmark: Brenderup, Fyn.
- 4130 [DAT 7; RJ Milner Fl1] AC Rath (F007). *Rhopaea magnicornis* [Coleoptera: Scarabaeidae]. 12 Jul 1979. Australia: Guyra, New South Wales.
- 4135 [DAT 15] AC Rath (F015). Larva, *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 9 Mar 1986. Australia: Laboratory, Newtown, Tasmania.
- 4136 [DAT 17] AC Rath (F017). Larva, *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 9 Mar 1986. Australia: Laboratory, Newtown, Tasmania.
- 4274 [DAT 143] AC Rath (F143). Adult, *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 23 Jun 1989. Australia: Glen Morey, Woodbury, Tasmania.
- 4382 LA Lacey (94140) ← CAAS (93.1). [Coleoptera]. 7 May 1994. Location not specified.
- 4721 [DAT 140] AC Rath (F140). Adult, *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. Spring 1989. Australia: Glen Morey, Woodbury, Tasmania.
- 4798 J Brito (7A). *Cosmopolites sordidus* [Coleoptera: Curculionidae]. Rec'd 14 Oct 1994. West Africa: Cape Verde Islands.
- 4799 J Brito (14A). *Cosmopolites sordidus* [Coleoptera: Curculionidae]. Rec'd 14 Oct 1994. West Africa: Cape Verde Islands.
- 4973 J McManus (HcBbV64 2p). Adult, *Hippodamia convergens* [Coleoptera: Coccinellidae]. Rec'd 30 Oct 1995. USA: Laboratory conditions, Ithaca, New York.
- 4974 J McManus (HcBbF66.1 2p). Adult, *Hippodamia convergens* [Coleoptera: Coccinellidae]. 19 Oct 1995. USA: Laboratory conditions, Ithaca, New York.
- 4975 J McManus (HcBbF66.2 2p). Adult, *Hippodamia convergens* [Coleoptera: Coccinellidae]. 19 Oct 1995. USA: Laboratory conditions, Ithaca, New York.
- 5070 LA Lacey (95062). *Tomicus minor* [Coleoptera: Scolytidae]. 5 Oct 1995. France: Lodéve, Hérault.
- 5071 LA Lacey (95063). *Tomicus minor* [Coleoptera: Scolytidae]. 5 Oct 1995. France: Lodéve, Hérault.
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[Sordariomycetes: Hypocreales]
Cordycipitaceae

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Beauveria brongniartii (Saccardo) Petch
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Major synonym: *Beauveria tenella* (Saccardo) MacLeod.

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- Beauveria caledonica*** Bissett & Widden
 [Sordariomycetes: Hypocreales]
 Cordycipitaceae
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 [Sordariomycetes: Hypocreales]
 Cordycipitaceae
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- 7760 [IMI 228343] *Phoracantha semipunctata* [Coleoptera: Cerambycidae]. 4 May 1978. Malawi: Zomba, Southern. CULTURE EX TYPE.

***Beauveria pseudobassiana* (sp. nov.,unpubl.)**

[Sordariomycetes: Hypocreales]

Cordycipitaceae. Defined primarily by genotypic characters

- 1855 P Spencer and HS Whitney (R640). Adult, *Ips* sp. [Coleoptera: Scolytidae]. Jul 1984. Canada: Christina Lake, British Columbia. Identification verified genomically.
- 4933 LA Lacey (95035). *Tomicus minor* [Coleoptera: Scolytidae] *Pinus nigra*. 4 Apr 1995. France: Saint-Etienne, de Gourgas. Identification verified genomically.
- 6229 [RCEF 0231] Adult, [Coleoptera: Scolytidae (Tribe Ipini)]. 8 Aug 1996. PR China: Guizhou Province. Identification verified genomically.

***Beauveria sungii* SA Rehner & Humber**

[Sordariomycetes: Hypocreales]

Cordycipitaceae. Defined primarily by genotypic characters

- 1685 M Shimazu (F-450). *Lachnostenra morosa* [Coleoptera: Scarabaeidae]. Acc'd 2 Nov 1984. Japan: Ibaraki Prefecture. EX-TYPE ISOLATE for species defined genomically.
- 5689 JM Sung (KEFC-251). [Coleoptera: Scarabaeidae]. 20 Aug 1993. Republic of Korea: Gal-Cheon, Kangwon-do. From teleomorph morphologically resembling *Cordyceps scarabaeicola*. Identification of anamorph verified genomically.
- 7279 JM Sung (EFCC 5014). [Coleoptera: Chrysomelidae]. 11 Jul 2000. Republic of Korea: Guryungryung, Kangwon-do. From teleomorph morphologically resembling *Cordyceps scarabaeicola*. Identification of anamorph verified genomically.
- 7280 JM Sung (EFCC 5657). [Coleoptera: Chrysomelidae]. Aug 2000. Republic of Korea: Guryungryung, Kangwon-do. From teleomorph morphologically resembling *Cordyceps scarabaeicola*. Identification of anamorph verified genomically.

***Beauveria varroae* SA Rehner & Humber**

[Sordariomycetes: Hypocreales]

Cordycipitaceae. Defined primarily by genotypic characters

- 2694 [IMI 328059] C Prior. *Larinus* sp. [Coleoptera: Curculionidae]. Rec'd 19 Mar 1989. Switzerland. Identification verified genomically.

***Candida* sp.**

[Saccharomycetes: Saccharomycetales]

All of these strains grow as yeasts with facultative capacities to attack cockroaches. It remains uncertain whether they can be primary pathogens or depend upon the host to be stressed, wounded, or otherwise compromised.

- 5729 TJ Poprawski. *Hypothenemus hampei* [Coleoptera:

Scolytidae] from laboratory colony. Rec'd 20 May 1998. USA: Weslaco, Texas.

***Cladosporium sphaerospermum* Penzig**

[Dothideomycetes: Capnodiales]

Mycosphaerellaceae

- 6516 RT Mayer. Larva, *Diaprepes abbreviata* [Coleoptera: Curculionidae]. Rec'd 10 May 2000. USA: Florida.

***Clonostachys rosea* (Link : Fries) Schroers, Samuels,**

Seifert & W Gams

[Sordariomycetes: Hypocreales]

Bionectriaceae

- 9491 [SRCAMB B-46] V Likhovidov ← BA Borisov. Larva, [Coleoptera: Scarabaeidae]. Jul 2001. Russian Federation: Lazovsky Nature Reserve, Primorsky Krai. Field Collection Number F-279.

***Conidiobolus* sp.**

[Entomophthoromycotina: Entomophthorales]

Ancylistaceae. These strains include a heterogeneous assortment of fungi isolated as saprobes and as zoopathogens. Some may represent undescribed new species. Identifications of *Conidiobolus* species are made difficult by the relative lack of taxonomic characters and of any modern taxonomic attention.

Caution: Strains derived from mammalian mycoses should be treated as potentially hazardous; observe handling precautions noted for *Conidiobolus coronatus*.

- 80 RG Kenneth (C.o. 15) or (3081) ← A Uziel. Larva, *Hypera variabilis* [Coleoptera: Curculionidae]. Mar 1976. Israel: alfalfa field, Sedé Eliyahu.

- 81 RG Kenneth (C.o. 10) or (3082) ← A Uziel. Larva, *Hypera variabilis* [Coleoptera: Curculionidae]. Mar 1976. Israel: Sedé Eliyahu.

***Conidiobolus coronatus* (Costantin) Batko**

[Entomophthoromycotina: Entomophthorales]

Ancylistaceae. Major synonyms: *Entomophthora coronata* (Costantin) Kevorkian, *Conidiobolus villosus* Martin.

Caution: This species is known to cause human mycoses that are primarily tropical in occurrence and confined to the nasal passages and adjacent superficial areas. Avoid inhalation of conidia and do not handle cultures without gloves if unhealed cuts or abrasions are present. This species has low pathogenicity for mammals and should be relatively safe if handled with good microbiological technique.

- 1572 S Keller (490). *Ceutorhynchus napi* [Coleoptera: Curculionidae]. 14 Jun 1984. Switzerland.

- 1573 S Keller (491). *Ceutorhynchus napi* [Coleoptera: Curculionidae]. 14 Jun 1984. Switzerland.

- 1574 S Keller (493). *Ceutorhynchus napi* [Coleoptera: Curculionidae]. 14 Jun 1984. Switzerland.

- 1575 S Keller (494). *Ceutorhynchus napi* [Coleoptera: Curculionidae]. 14 Jun 1984. Switzerland.

Conidiobolus osmodes Drechsler

[Entomophthoromycotina: Entomophthorales]

Ancylistaceae

- 79 [FPMI 695] RG Kenneth (3) or (3080) ← A Uziel. Larva, *Hypera variabilis* [Coleoptera: Curculionidae]. Mar 1976. Israel: Sedé Eliyahu.

Cordyceps sp.

[Sordariomycetes: Hypocreales]

Family cannot be determined since this genus in its old, broad sense is now segregated among several genera in three families

- 3718 RA LeBrun ← J Hanula (C-4). Larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. Summer 1991. Location not specified.
- 4852 JM Sung (C-331). Adult, *Sitophilus oryzae* [Coleoptera: Curculionidae]. Jul 1994. Republic of Korea: KNU experiment Forest, Kangwon National University.
- 7848 [SRCAMB B-47] V Likhovidov ← BA Borisov. Larva, [Coleoptera: Scarabaeidae] Isolated from stroma. Aug 2002. Russian Federation: Lazovsky Nature Reserve, Primorsky Krai. Field Collection Number F-200.

Cordyceps brongniartii Shimazu

[Sordariomycetes: Hypocreales]

Cordycipitaceae

- 7516 M Shimazu (F-621). Larva, *Anomala cuprea* [Coleoptera: Scarabaeidae]. 27 Jul 1987. Japan: Nishidake, Nagano Prefecture. Isolated from a perithecioid. Anamorph is Beauveria brongniartii. Identification verified genomically.
- 7517 M Shimazu (F-638). Larva, *Anomala cuprea* [Coleoptera: Scarabaeidae]. 16 Apr 1988. Laboratory manipulation. Isolated from an ascospore. Anamorph is Beauveria brongniartii. Identification verified genomically.

Cordyceps scarabaeicola Kobayasi

[Sordariomycetes: Hypocreales]

Cordycipitaceae. Anamorph: *Beauveria*

- 7277 JM Sung (EFCC 2533). [Coleoptera: Chrysomelidae]. 6 Aug 1998. Nepal.
- 7278 JM Sung (EFCC 2535). [Coleoptera: Chrysomelidae]. 6 Aug 1998. Nepal.

Engyodontium rectidentatum (Matsush.) W. Gams, de Hoog, Samson & H.C. Evans

[Sordariomycetes: Hypocreales]

Cordycipitaceae

- 7805 [SRCAMB B-158] V Likhovidov ← BA Borisov. [Coleoptera: Scarabaeidae] Isolated from unripened stroma. 9 Aug 2002. Russian Federation: Lazovsky Nature Reserve, Primorsky Krai. Field Collection Number F-269.

Erynia sp.

[Zygomycetes: Entomophthoromycotin]

Entomophthoraceae. Strains included here were not sufficiently identifiable to the species and have not been reidentified since publication of the entomophthoralean taxonomy used here (see Humber, 1989, Mycotacon 34:441-460). In this classification these strains would be reassigned to *Pandora* Humber, *Furia* (Batko) Humber, *Erynia* (Nowakowski ex Batko) Remaudière & Hennebert, or *Zoophthora* Batko.

- 2525 J Eilenberg (KVL 34). *Rhagonycha fulva* [Coleoptera: Cantharidae]. Aug 1987. Denmark: Holmegaards Mose, Zealand.
- 2536 J Eilenberg (KVL 18). *Rhagonycha fulva* [Coleoptera: Cantharidae]. 31 Jul 1986. Denmark: Holmegaards Mose, Zealand.
- 2537 J Eilenberg (KVL 23). *Rhagonycha fulva* [Coleoptera: Cantharidae]. 31 Jul 1986. Denmark: Holmegaards Mose, Zealand.
- 2538 J Eilenberg (KVL 20). *Rhagonycha fulva* [Coleoptera: Cantharidae]. 31 Jul 1986. Denmark: Holmegaards Mose, Zealand.
- 2539 J Eilenberg (KVL 22). *Rhagonycha fulva* [Coleoptera: Cantharidae]. 31 Jul 1986. Denmark: Holmegaards Mose, Zealand.
- 2553 [ARSEF 2662 (deaccessioned)] J Eilenberg (KVL 19) and J Martin. *Rhagonycha fulva* [Coleoptera: Cantharidae]. 31 Jul 1986. Denmark: Holmegaards Mose, Zealand.
- 2663 J Eilenberg (KVL 33) ← J Martin. *Rhagonycha fulva* [Coleoptera: Cantharidae]. Aug 1987. Denmark: Holmegaards Mose, Zealand.
- 2664 J Eilenberg (KVL 40). [Coleoptera: Cantharidae]. Jun 1987. Denmark: Brogaard, Lammfjorden.
- 5352 KT Hodge. Adult, [Coleoptera: Cantharidae] Willow. 18 Jun 1996. USA: German Cross Road, Dryden, New York.

Evlachovaea sp.

[Sordariomycetes: Hypocreales]

Cordycipitaceae

- 1017 HS Whitney (R599). Adult, *Dendroctonus rufipennis* [Coleoptera: Scolytidae]. Jun 1975. Canada: nr. Hixon, British Columbia.
- 7403 G Zimmermann (E 1622/01) ← U Heimbach. Larva, *Agriotes* sp. [Coleoptera: Elateridae]. Oct 2001. Germany: Neustadt an der Weinstraße, Rheinhessen-Pfalz.
- 7551 [CIAT 301] A Gaigl. *Phyllophaga menetriesi* [Coleoptera: Scarabaeidae]. 14 Jan 2004. Colombia: Caldono, Cauca. 1500 m elevation.

Evlachovaea kintrischica Borisov & Tarasov

[Sordariomycetes: Hypocreales]

Cordycipitaceae

- 7218 [CMPPB 150; SRCAMB B-184] V Likhovidov ← BA Borisov (B.B. 2). *Agelastica alni* [Coleoptera:

- Chrysomelidae] in litter. 21 Sep 1991. Republic of Georgia: Kintrishi Valley, near Cordon Tskhemlovani, Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. 360 m elevation. Field Collection Number F-306. CULTURE EX TYPE.
- 8058 [CMPPB 150; SRCAMB B-184] V Likhovidov ← BA Borisov (B.B. 2). *Agelastica alni* [Coleoptera: Chrysomelidae] in litter. 21 Sep 1991. Republic of Georgia: Kintrishi Valley, near Cordon Tskhemlovani, Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. 360 m elevation. Field Collection Number F-306. CULTURE EX TYPE.
- Fusarium sp.**
[Sordariomycetes: Hypocreales]
Nectriaceae
- 1310 [NRRL 25082] TJ Poprawski (A9). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Feb 1984. Morocco: Achouria.
- 2568 [NRRL 25091] F Agudelo-Silva ← RL Bugg. Larva, *Chalcodermus aeneus* [Coleoptera: Curculionidae]. Nov 1987. USA: Tifton, Georgia.
- 2569 [NRRL 25092] F Agudelo-Silva ← RL Bugg. Larva, *Chalcodermus aeneus* [Coleoptera: Curculionidae]. Nov 1987. USA: Tifton, Georgia.
- 3030 [NRRL 25097] W Mechaber (weevil#1318). Adult, *Anthonomus musculus* [Coleoptera: Curculionidae] on *Lyonia mariana*. 1 Jun 1990. USA: Pemberton, New Jersey.
- 3031 [NRRL 25098] W Mechaber (weevil#1334). Adult, *Anthonomus musculus* [Coleoptera: Curculionidae] on *Lyonia mariana*. 1 Jun 1990. USA: Pemberton, New Jersey.
- 3032 [NRRL 25099] W Mechaber (weevil#1354). Adult, *Anthonomus musculus* [Coleoptera: Curculionidae] on *Lyonia mariana*. 1 Jun 1990. USA: Pemberton, New Jersey.
- 4011 [NRRL 25123] T Steenberg (193) ← J Martin. *Lilioceris lilii* [Coleoptera: Chrysomelidae]. Jun 1989. Denmark: Garden of Agricultural University, Zealand.
- 4825 [NRRL 52764] JD Vandenberg (27-2). Adult, *Otiorrhynchus ligustici* [Coleoptera: Curculionidae] on *Medicago sativa* L., alfalfa. 26 Jun 1994. USA: Alfalfa field, Great Bend, New York.
- 5461 TJ Poprawski (TJP926) ← G Mercadier (EBCL 97031). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 14 Jan 1997. Ivory Coast: RCI.7, Bozi. 89099.
- 5875 FE Vega (EBCL 98004). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. Oct 1997. Benin: Niaouli.
- 5878 FE Vega (EBCL 98011). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. Oct 1997. Benin: Niaouli.
- 5879 FE Vega (EBCL 98012). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 19 Oct 1997. Uganda: Chesogok.
- 6602 [NRRL 52701] FE Vega. *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 28 Sep 2000. Colombia: Caldas.
- 7063 RA Humber (2A). *Hypothenemus hampei* [Coleoptera: Scolytidae]. 13 Jul 2001. Indonesia: Konaweha, Sulawesi.
- 8131 [NRRL 52740] LS Bauer and H Liu (MF-221). Pre-pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 1 Dec 2005. USA: Ann Arbor, Michigan.
- 8266 [NRRL 52741] RJ Pereault (Walton Spray pci#3). *Conotrachelus nenuphar* [Coleoptera: Curculionidae]. Aug 2006. USA: orchard B, Frankfort, Michigan.
- 8267 [NRRL 52743] RJ Pereault (Walton Control pci#1). *Conotrachelus nenuphar* [Coleoptera: Curculionidae]. Aug 2006. USA: orchard B, Frankfort, Michigan.
- 9273 Z Demirbag and E Tanyeli (Dm-7). *Dendroctonus micans* [Coleoptera: Scolytidae]. 20 Jun 2009. Turkey: Maçka-Zigana, Trabzon.
- 9274 Z Demirbag and E Tanyeli (Dm-8). *Dendroctonus micans* [Coleoptera: Scolytidae]. 20 Jun 2009. Turkey: Maçka-Zigana, Trabzon.
- Harposporium janus** Shimazu & Glockling
[Sordariomycetes: Hypocreales]
Ophiocordycipitaceae
- 5601 SL Glockling. Larva, [Coleoptera: Cerambycidae] on tree trunk. Rec'd 2 Dec 1997. Japan.
- Hirsutella fusiformis** Speare
[Sordariomycetes: Hypocreales]
Ophiocordycipitaceae
- 5474 [ATCC 32804; CBS 205.33] *Brachyderes incanus* [Coleoptera: Curculionidae]. Rec'd 13 May 1997. Netherlands.
- Isaria sp.**
[Sordariomycetes: Hypocreales]
Cordycipitaceae
- 9519 [SRCAMB VL-1914/1] V Likhovidov. Larva, [Coleoptera]. 22 Aug 2005. Belarus: Belavezhskaya Puscha National Park. Field Collection Number F-853.
- Isaria amoenerosea** P. Hennings
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Major synonym: *Paecilomyces amoeneroseus* (Hennings) Samson. Reclassified during a phylogenetically necessary reclassification of *Paecilomyces* Section *Isarioidea*.
- 741 [CNPAF 82-1-15-06; CP 19] RA Daoust. *Lagria vilosa* [Coleoptera: Lagriidae]. Jan 1982. Brazil: CNPAF, Goiânia, Goiás.
- 744 [CNPAF 82-2-15-05; CP 26] RA Daoust. *Lagria vilosa* [Coleoptera: Lagriidae]. Feb 1982. Brazil: CNPAF, Goiânia, Goiás.

- 2220 [CNPAF 86-06-05-4; CP 216] DW Roberts ← GS da Silva. *Lagria vilosa* [Coleoptera: Lagriidae]. 5 Jun 1986. Brazil: CNPAF, Goiânia, Goiás.
- 2958 CENARGEN (CG 162). *Lagria vilosa* [Coleoptera: Lagriidae]. Rec'd 14 Mar 1990. Brazil: Formosa, Goiás.
- 2959 CENARGEN (CG 163). *Lagria vilosa* [Coleoptera: Lagriidae]. Rec'd 14 Mar 1990. Brazil: Formosa, Goiás.
- 2960 CENARGEN (CG 164). *Lagria vilosa* [Coleoptera: Lagriidae]. Rec'd 14 Mar 1990. Brazil: Formosa, Goiás.
- 4097 LA Lacey (94007). *Lagria vilosa* [Coleoptera: Lagriidae]. Rec'd 28 Mar 1994. Brazil.
- 4849 JM Sung (C-321). Adult, [Coleoptera: Meloidae]. 14 Jul 1994. Republic of Korea: Chiag Mt., Kangwon-do.

Isaria cateniannullata (ZQ Liang) Samson & Hywel-Jones
[Sordariomycetes: Hypocreales]
Cordycipitaceae

- 6241 [RCEF 0464] [Coleoptera: Curculionidae]. 8 Jul 1998. PR China: Anhui.
- 6243 [RCEF 0516] *Brachyderes incanus* [Coleoptera: Curculionidae]. 27 Jan 1999. PR China: Anhui.

Isaria catenobliqua (ZQ Liang) Samson & Hywel-Jones
[Sordariomycetes: Hypocreales]
Cordycipitaceae

- 6244 [RCEF 0189] Adult, [Coleoptera]. Rec'd 24 Aug 1999. PR China: Anhui.

Isaria coleopterorum (Samson & HC Evans) Samson & Hywel-Jones
[Sordariomycetes: Hypocreales]
Cordycipitaceae

- 9509 [SRCAMB VL-2091] V Likhovidov. [Coleoptera: Lampyridae]. 25 Aug 2006. Russian Federation: Moscow Region. Field Collection Number F-1086.

Isaria farinosa (Holmsk.) Fries
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Major synonym: *Paecilomyces farinosus* (Holmsk. ex Gray) Brown & Smith. Reclassified during a phylogenetically necessary reclassification of *Paecilomyces* Section *Isarioidea*. Teleomorph: *Cordyceps memorabilis* Ces.

- 799 DA Rodriguez Sierra ← A López. Pupa, *Prennotrypes vorax* [Coleoptera: Curculionidae]. Nov 1981. Colombia: Tibaitata, Mosquera, Nariño.
- 1507 I Majchrowicz (61) ← F Herard. Imago, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. May 1983. France: Entraigues, Vaucluse.

- 1508 I Majchrowicz (76) ← F Herard. Imago, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. May 1983. France: Entraigues, Vaucluse.
- 1957 [CNPAF 85-7-22-1; CP 182] JC Lord and BP Magalhães. *Lagria vilosa* [Coleoptera: Lagriidae]. 22 Jul 1985. Brazil: União dos Palmares, Alagoas.
- 2355 [ARSEF 2379 (never frozen)] MC Rombach (201286-7). [Coleoptera]. 20 Dec 1986. Philippines: rainforest, Mt. Makiling, Los Baños, Manila.
- 2937 EcoScience Corporation (32-51) ← LJ Dapsis. *Otiorynchus sulcatus* [Coleoptera: Curculionidae]. Aug 1989. USA: Oregon.
- 4029 T Steenberg (234) ← CW Riedel. *Agonum dorsale* [Coleoptera: Carabidae]. Jan 1991. Denmark: Menstrup, Zealand.
- 4039 T Steenberg (259). *Sitona lineatus* [Coleoptera: Curculionidae]. Oct 1991. Denmark: Copenhagen, Tåstrup, Zealand.
- 4040 T Steenberg (260) ← L Øgaard. *Staphylinus olens* [Coleoptera: Staphylinidae]. Oct 1991. Denmark: Bagsværd, Zealand.
- 4043 T Steenberg (269) ← CW Riedel. *Bembidion lampros* [Coleoptera: Carabidae]. Jan 1991. Denmark.
- 4044 T Steenberg (270). *Agonum dorsale* [Coleoptera: Carabidae]. Jan 1991. Denmark.
- 4045 T Steenberg (274) ← V Langer. Larva, *Hapalus* sp. [Coleoptera: Carabidae]. Nov 1991. Denmark: Copenhagen, Tåstrup, Zealand.
- 5073 LA Lacey (95065). [Coleoptera: Cerambycidae]. 6 Oct 1995. France: Lodéve, Hérault.
- 5074 LA Lacey (95066). [Coleoptera: Cerambycidae]. 6 Oct 1995. France: Lodéve, Hérault.
- 5075 LA Lacey (95067). [Coleoptera: Cerambycidae]. 6 Oct 1995. France: Lodéve, Hérault.
- 5080 LA Lacey (95069). [Coleoptera: Cerambycidae]. 16 Nov 1995. France: Saint-Etienne, de Gourgas.
- 5699 JM Sung (KEFC-1170). [Coleoptera: Tenebrionidae]. 9 Jul 1997. Republic of Korea: Yongmoon Mt., Gyeonggi Province.
- 5754 BL Parker (SPT 012). [Coleoptera: Coccinellidae]. 18 Jan 1998. Turkey: Hirshitö Ht., Gaziantep, Gaziantep.
- 5834 BL Parker (SPT 013/2). [Coleoptera: Coccinellidae]. 18 Jan 1998. Turkey: Hursit Mt., Gaziantep, Gaziantep.
- 5858 T Steenberg (SSL 610). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Feb 1997. Denmark: Broiler house, Øster Sottrup, Jutland.
- 6488 BL Parker (SPT-KZ-418). Adult, [Coleoptera: Scarabaeidae] overwintering in soil. 6 Feb 2000. Kazakhstan: GPS Coordinates N 43°08.530' E 076°36.526'. **RESTRICTED ACCESS:**
contact Curator

- 6489 BL Parker (SPT-KZ-419). Adult, [Coleoptera: Scarabaeidae] overwintering in soil. 6 Feb 2000. Kazakhstan: GPS Coordinates N 43°08.530' E 076°36.526'. **RESTRICTED ACCESS:**
contact Curator
- 6491 BL Parker (SPT-KZ-423). Adult, [Coleoptera: Chrysomelidae] overwintering in soil. 4 Feb 2000. Kazakhstan: GPS Coordinates N 43°23.081' E 077°34.126'. **RESTRICTED ACCESS:**
contact Curator
- 7276 JM Sung (EFCC 9251). [Coleoptera: Cerambycidae]. 23 Aug 2002. Republic of Korea: Seolag Mt., Kangwon-do.
- 8411 AE Hajek (02 NY 5-6-1). Adult, cadaver, *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. 10 Sep 2002. USA: Quarantine colony, Ithaca, New York.
- 8917 [ERL 253] BL Parker (AVRDC 0482B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 9269 Z Demirbag and E Tanyeli (Dm-3). *Dendroctonus micans* [Coleoptera: Scolytidae]. 24 Oct 2008. Turkey: Maçka-Zigana, Trabzon.
- 9270 Z Demirbag and E Tanyeli (Dm-4). *Dendroctonus micans* [Coleoptera: Scolytidae]. 24 Oct 2008. Turkey: Maçka-Zigana, Trabzon.
- 9275 Z Demirbag and E Tanyeli (Dm-9). *Dendroctonus micans* [Coleoptera: Scolytidae]. 20 Jun 2009. Turkey: Maçka-Zigana, Trabzon.
- 9276 Z Demirbag and E Tanyeli (Dm-10). *Dendroctonus micans* [Coleoptera: Scolytidae]. 20 Jun 2009. Turkey: Maçka-Zigana, Trabzon.
- 9277 Z Demirbag and E Tanyeli (Dm-11). *Dendroctonus micans* [Coleoptera: Scolytidae]. 20 Jun 2009. Turkey: Maçka-Zigana, Trabzon.
- 9278 Z Demirbag and E Tanyeli (Dm-12). *Dendroctonus micans* [Coleoptera: Scolytidae]. 20 Jun 2009. Turkey: Maçka-Zigana, Trabzon.
- 9511 [SRCAMB VL-1587/3] V Likhovidov. [Coleoptera: Silphidae]. 14 Sep 2004. Russian Federation: Caucasus region, Karachayevо-Cherkessiya Republ. Field Collection Number F-525.
- 9516 [SRCAMB B-405/2] V Likhovidov ← BA Borisov. [Coleoptera]. Oct 2003. Ukraine: Kherson Oblast. Field Collection Number F-930.
- 9944 LS Bauer (Legg Park 1). Larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Rec'd 14 Apr 2010. USA: Legg Park, Okemos, Michigan.
- 9945 LS Bauer (Legg Park 2). Larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Rec'd 14 Apr 2010. USA: Legg Park, Okemos, Michigan.

Isaria fumosorosea Wize
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Major synonym: *Paecilomyces fumosoroseus* (Wize) Brown & Smith. Reclassified during a phylogenetically necessary reclassification of *Paecilomyces* Section *Isarioidea*.

- 722 [CNPAF 82-1-15-05; CP 18] RA Daoust. *Lagria vilosa* [Coleoptera: Lagriidae]. Jan 1982. Brazil: CNPAF, Goiânia, Goiás.
- 1506 I Majchrowicz (71) ← F Herard. Imago, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. May 1983. France: Entraigues, Vaucluse.
- 2216 [CNPAF 86-06-05-1; CP 212] DW Roberts ← PMOJ Neves. *Lagria vilosa* [Coleoptera: Lagriidae]. 5 Jun 1986. Brazil: CNPAF, Goiânia, Goiás.
- 2217 [CNPAF 86-06-02-2; CP 213] DW Roberts ← OS Ohashi. *Lagria vilosa* [Coleoptera: Lagriidae]. 2 Jun 1986. Brazil: CNPAF, Goiânia, Goiás.
- 2219 [CNPAF 86-06-05-3; CP 215] DW Roberts ← DMF Capalbo. *Lagria vilosa* [Coleoptera: Lagriidae]. 5 Jun 1986. Brazil: CNPAF, Goiânia, Goiás.
- 2221 [CNPAF 86-06-05-1; CP 217] DW Roberts ← OS Ohashi. *Lagria vilosa* [Coleoptera: Lagriidae]. 5 Jun 1986. Brazil: CNPAF, Goiânia, Goiás.
- 2679 AS Martins. 3rd instar larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. 13 Oct 1988. Portugal: Terceira Island, Azores.
- 2956 CENARGEN (CG 123). *Spaethiella* sp. [Coleoptera: Chrysomelidae]. Rec'd 14 Mar 1990. Brazil: Manaus, Amazonas.
- 5627 I Vänninen (SF86-82). Larva, *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. Aug 1986. Finland: Kymenlaakso.
- 5694 JM Sung (KEFC-919). [Coleoptera]. 28 Jun 1996. Republic of Korea: Book-Bang, Hong-Cheon Kun, Kangwon-do.
- 5844 T Steenberg (SSL 58). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from soil.
- 5845 T Steenberg (SSL 59). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from soil.
- 5846 T Steenberg (SSL 61). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from soil.
- 5847 T Steenberg (SSL 62). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from soil.
- 6730 FE Vega (EBCL 97054). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 23 Feb 2001. Ivory Coast.
- 7284 FE Vega (MPM-5). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 8 Jan 2004. Mexico: Tapachula, Chiapas.

Fungal Cultures

Isaria fumosorosea *Lecanicillium muscarium*

- 8142 LS Bauer and H Liu (MF-233). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 28 Jul 2006. USA: Brighton, Michigan.
- 8840 [CSIRO FI-1275] [Coleoptera: Chrysomelidae]. 5 Aug 1998. Australia: Tasmania.
- 8892 [CSIRO FI-1296] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae] from insect A11. 22 Dec 1998. Australia: Condong, New South Wales.
- 9521 [SRCAMB VL-2057] V Likhovidov. *Coccinella septempunctata* [Coleoptera: Coccinellidae]. Aug 2000. Ukraine: Kherson Oblast. Field Collection Number F-749.
- 9602 X Zou (9). [Coleoptera]. Rec'd 19 Jan 2010. PR China: Guizhou Province.

Isaria javanica (Friederichs & Bally) Samson & Hywel-Jones
[Sordariomycetes: Hypocreales]

Cordycipitaceae. Major synonym: *Paecilomyces javanicus* (Friederichs & Bally) Brown & Smith. Reclassified during a phylogenetically necessary reclassification of *Paecilomyces* Section *Isarioidea*.

- 322 GR Buckingham. *Litodactylus leucogaster* [Coleoptera: Curculionidae]. Dec 1978. USA: Gainesville, Florida.
- 7119 HE Cabanillas. Adult, [Coleoptera] on wild olive tree. 29 Oct 2002. USA: Weslaco, Texas.

***Lecanicillium* sp.**
[Sordariomycetes: Hypocreales]
Cordycipitaceae

- 9459 [SRCAMB VL-1587/2] V Likhovidov. [Coleoptera: Silphidae]. 14 Sep 2004. Russian Federation: Caucasus region, Karachayevо-Cherkessiya Republ. Field Collection Number F-524.

Lecanicillium fungicola (Preuss) Zare & W Gams
[Sordariomycetes: Hypocreales]

Cordycipitaceae. Synonym: *Lecanicillium fungicola* (Preuss) Hassebrauk

- 9483 [SRCAMB VL-2063] V Likhovidov. Larva, [Coleoptera: Elateridae] Isolated from *Cordyceps* sp. Aug 2005. Belarus: Belavezhskaya Puscha National Park. Field Collection Number F-928.

Lecanicillium lecanii (Zimmermann) Zare & W Gams
[Sordariomycetes: Hypocreales]

Cordycipitaceae. Segregate species in *Lecanicillium lecanii* species complex; formerly classified as *Verticillium lecanii* (Zimmermann) Viégas. Teleomorph: *Cordyceps confragosa* (Mains) GH Sung, JM Sung, Hywel-Jones & Spatafora [basionym: *Torrubiella confragosa* Mains]

- 1505 I Majchrowicz (70) ← F Herard. Imago, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. May 1983. France: Entraigues, Vaucluse.

- 7181 H Liu (MSUFS-701). Adult, *Plectrodera scalator* [Coleoptera: Cerambycidae] from laboratory colony. 18 Dec 2001. USA: East Lansing, Michigan.
- 7182 H Liu (MSUFS-702). Adult, *Plectrodera scalator* [Coleoptera: Cerambycidae] from laboratory colony. 18 Dec 2001. USA: East Lansing, Michigan.
- 8115 LS Bauer and H Liu (MF-204). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 14 Dec 2005. USA: Brighton, Michigan.

Lecanicillium longisporum (Petch) Zare & W Gams
[Sordariomycetes: Hypocreales]

Cordycipitaceae. Segregate species in *Lecanicillium lecanii* species complex; formerly classified as *Verticillium lecanii* (Zimmermann) Viégas

- 4050 T Steenberg (299). *Tachyporus hypnorum* [Coleoptera: Staphylinidae]. Mar 1992. Denmark: Copenhagen, Tåstrup, Zealand.
- Lecanicillium muscarium*** (Petch) Zare & W Gams
[Sordariomycetes: Hypocreales]
- Cordycipitaceae. Segregate species in *Lecanicillium lecanii* species complex; formerly classified as *Verticillium lecanii* (Zimmermann) Viégas

- 1328 TJ Poprawski (084). Egg, *Hypera postica* [Coleoptera: Curculionidae]. 17 May 1983. France: Chichery.
- 1335 S Balazy (1539). Larva, *Malachius bipustulatus* [Coleoptera: Melyridae] under the stem bark of *Quercus robur* in leafy forest. 24 Apr 1983. Poland: Wielkopolski National Park.
- 1401 TJ Poprawski (089). Egg, *Hypera postica* [Coleoptera: Curculionidae]. Jun 1983. France.
- 1402 TJ Poprawski (090). Egg, *Hypera postica* [Coleoptera: Curculionidae]. Jun 1983. France.
- 1403 TJ Poprawski (091). Egg, *Hypera postica* [Coleoptera: Curculionidae]. Jun 1983. France.
- 4033 T Steenberg (239). *Sitona lineatus* [Coleoptera: Curculionidae]. Mar 1991. Denmark: Næstved, Zealand.
- 4036 T Steenberg (244). Pupa, *Dendroctonus micans* [Coleoptera: Scolytidae]. Rec'd Nov 1993. Denmark.
- 7248 JM Sung (EFCC 2011). [Coleoptera: Curculionidae]. 20 May 1998. Republic of Korea: Guryungryung, Kangwon-do.
- 8048 HH Kope (PFC 5). Adult, cadaver, *Pissodes strobi* [Coleoptera: Curculionidae]. 2003. Canada: Eve River, Vancouver Island, British Columbia. 50°17' N, 126°18' W.
- 8049 HH Kope (PFC 6). Adult, cadaver, *Pissodes strobi* [Coleoptera: Curculionidae]. 2003. Canada: Eve River, Vancouver Island, British Columbia. 50°17' N, 126°18' W.
- 8050 HH Kope (PFC 9). Adult, cadaver, *Pissodes strobi* [Coleoptera: Curculionidae]. 2003. Canada: Pacific Forestry Centre Arboretum, Vancouver Island, British Columbia. 48°28' N, 124°24' W.

- 8051 HH Kope (PFC 10). Adult, cadaver, *Pissodes strobi* [Coleoptera: Curculionidae]. 2003. Canada: Nimpkish, Vancouver Island, British Columbia. 50°19' N, 126°54' W.
- 8052 HH Kope (PFC 11). Adult, cadaver, *Pissodes strobi* [Coleoptera: Curculionidae]. 2003. Canada: Nimpkish, Vancouver Island, British Columbia. 50°19' N, 126°54' W.
- 8053 HH Kope (PFC 12). Adult, cadaver, *Pissodes strobi* [Coleoptera: Curculionidae]. 2003. Canada: Cowichan Lake, Vancouver Island, British Columbia. 48°50' N, 124°06' W.
- 8054 HH Kope (PFC 15). Adult, cadaver, *Pissodes strobi* [Coleoptera: Curculionidae]. 2003. Canada: Pacific Forestry Centre Arboretum, Vancouver Island, British Columbia. 48°28' N, 124°24' W.
- 8114 LS Bauer and H Liu (MF-203). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 14 Dec 2005. USA: Brighton, Michigan.
- 8118 LS Bauer and H Liu (MF-208). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 14 Dec 2005. USA: Brighton, Michigan.
- 8157 LS Bauer and H Liu (MF-248). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 28 Jul 2006. USA: Brighton, Michigan.
- 8163 LS Bauer and H Liu (MF-254). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 28 Jul 2006. USA: Ann Arbor, Michigan.
- 8165 LS Bauer and H Liu (MF-257). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 10 Aug 2006. USA: Ann Arbor, Michigan.
- 8923 [ERL 281] BL Parker (AVRDC 0588B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 9267 Z Demirbag and E Tanyeli (Dm-1). *Dendroctonus micans* [Coleoptera: Scolytidae]. 24 Oct 2008. Turkey: Maçka-Zigana, Trabzon.
- 9268 Z Demirbag and E Tanyeli (Dm-2). *Dendroctonus micans* [Coleoptera: Scolytidae]. 24 Oct 2008. Turkey: Maçka-Zigana, Trabzon.
- Lecanicillium muscarium(?)*** (Petch) Zare & Gams
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Segregate species in *Lecanicillium lecanii* species complex; formerly classified as *Verticillium lecanii* (Zimmermann) Viégas.
- 8162 LS Bauer and H Liu (MF-253). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 28 Jul 2006. USA: Ann Arbor, Michigan.
- 8265 RJ Pereault (Walton Spray pci#2). *Conotrachelus nenuphar* [Coleoptera: Curculionidae]. Aug 2006. USA: orchard B, Frankfort, Michigan.

- Lecanicillium nr. aranearum*** (Petch) Zare & Gams
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Reclassified from *Verticillium* Section Prostrata for phylogenetically required reasons.

- 9460 [SRCAMB VL-2092] V Likhovidov. [Coleoptera: Lampyridae]. 25 Aug 2006. Russian Federation: Moscow Region. Field Collection Number F-1104.

- Lecanicillium pissodis*** Kope & I. Leal
[Sordariomycetes: Hypocreales]
Cordycipitaceae

- 8055 [DAVFP 29230] HH Kope (PFC 17). Adult, cadaver, *Pissodes strobi* [Coleoptera: Curculionidae]. 2003. Canada: Pacific Forestry Centre Arboretum, Vancouver Island, British Columbia. 48°28' N, 124°24' W.

- 8056 [DAVFP 29231] HH Kope (PFC 18). Adult, cadaver, *Pissodes strobi* [Coleoptera: Curculionidae]. 2003. Canada: Pacific Forestry Centre Arboretum, Vancouver Island, British Columbia. 48°28' N, 124°24' W.

- 8057 [CBS 118231; DAVFP 29232] HH Kope (PFC 19). Adult, cadaver, *Pissodes strobi* [Coleoptera: Curculionidae]. 2003. Canada: Pacific Forestry Centre Arboretum, Vancouver Island, British Columbia. 48°28' N, 124°24' W. CULTURE EX TYPE.

- Lecanicillium sp. 2(?)*** sensu W. Gams & Zare
[Sordariomycetes: Hypocreales]
Cordycipitaceae

- 2832 SR Sánchez Peña (2). [Coleoptera]. Jul 1987. Mexico: elev. 2900 m, Pseudotsuga-Abies forest, Pueblo Nuevo, Durango.

- Metarhizium* sp.**
[Sordariomycetes: Hypocreales]
Clavicipitaceae

- 7493 [CSIRO FI-1358] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 23 Jul 1999. Laboratory infection.

- 7495 [CSIRO FI-1395] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae]. 27 Dec 1999. Australia: Condong, New South Wales.

- 8851 [CSIRO FI-1342] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae] from Condong insect A4. Jun 1999. Australia: Condong, New South Wales.

- 8852 [CSIRO FI-1345] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae] from Condong insect 71. Jun 1999. Australia: Condong, New South Wales.

- 8855 [CSIRO FI-1352] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae] from Condong insect 420. 23 Jul 1999. Australia: Condong, New South Wales.

- 8856 [CSIRO FI-1353] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae] from Condong insect 334. 23 Jul 1999. Australia: Condong, New South Wales.

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Metarhizium sp. *Metarhizium anisopliae* sensu lato

- 8857 [CSIRO FI-1354] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae] from Condong insect 349. 23 Jul 1999. Australia: Condong, New South Wales.

Metarhizium anisopliae* var. *lepidiotae Driver, Milner & Trueman
[Sordariomycetes: Hypocreales]
Clavicipitaceae. Species remaining here need genomic confirmation before reclassification under the emergent classification of Bischoff et al. (2009), presumably to *M. lepidiotae*.

- 7453 [ARSEF 7488; CSIRO FI-1042] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 5 Mar 1994. Australia: Tully, Queensland.
- 8732 [CSIRO FI-0147] *Lepidiota consobrina* [Coleoptera: Scarabaeidae]. 29 May 1986. Australia: Mossman, Queensland. CULTURE EX TYPE.

Metarhizium anisopliae* var. *majus (Johnston)
Tulloch
[Sordariomycetes: Hypocreales]
Clavicipitaceae. Species remaining here need genomic confirmation before reclassification, presumably as *M. majus*, under the classification of Bischoff et al. (2009).

- 297 KJ Marschall. Larva, *Xyloryctes jamaicensis* [Coleoptera: Scarabaeidae]. 22 Nov 1978. Western Samoa: Apia.
- 298 RS Soper. Larva, *Xyloryctes jamaicensis* [Coleoptera: Scarabaeidae]. Acc'd 22 Feb 1979. Western Samoa: Apia.
- 2151 MC Rombach (170386-1). Larva, *Oryctes rhinoceros* [Coleoptera: Scarabaeidae]. 17 Mar 1986. Indonesia: Ciamis, Jawa Barat, Java.
- 3145 INRA (Ma-51) ← A Gandard. *Oryctes rhinoceros* [Coleoptera: Scarabaeidae]. Jan 1971. France: La Minière.

***Metarhizium anisopliae* sensu lato** (Metschnikoff)
Sorokin
[Sordariomycetes: Hypocreales]
Clavicipitaceae. These isolates were identified morphologically and have not yet been reidentified under the genomic classification of Bischoff et al. (2009).

- 725 [CNPAF 82-1-6-02; CP 8] RA Daoust. *Chalcodermus aeneus* [Coleoptera: Curculionidae]. 6 Jan 1982. Brazil: CNPAF, Goiânia, Goiás.
- 760 [CNPAF 82-2-15-03; CP 31] RA Daoust. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. Feb 1982. Brazil: CNPAF, Goiânia, Goiás.
- 808 [CNPAF 82-7-23-01; CP 62] RA Daoust ← SM dos Santos. *Coleomegilla maculata* [Coleoptera: Coccinellidae]. 23 Jul 1982. Brazil: CNPAF, Goiânia, Goiás.
- 818 GG Soares (19). 6th instar larva, *Otiorrhynchus sulcatus* [Coleoptera: Curculionidae]. 5 Mar 1982. France: Plougastel-Daoulas, Finistere.

- 929 [CNPAF 82-12-15-01; CP 67] RA Daoust ← SM dos Santos. Larva, *Chalcodermus aeneus* [Coleoptera: Curculionidae]. Dec 1982. Brazil: CNPAF, Goiânia, Goiás.
- 932 [CNPAF 82-12-20-02; CP 70] RA Daoust. [Coleoptera: Bruchidae]. 20 Dec 1982. Brazil: CNPAF, Goiânia, Goiás.
- 939 [CNPAF 83-3-3-03; CP 78] RA Daoust ← SM dos Santos. [Coleoptera: Carabidae]. 3 Mar 1983. Brazil: CNPAF, Goiânia, Goiás.
- 954 [CNPAF 83-03-16L; CP 99] RA Daoust and BP Magalhães. [Coleoptera: Bruchidae]. 16 Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 1056 [CNPS 25] F Moscardi. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 1983. Brazil: Londrina, Paraná.
- 1280 DW Roberts (single spore isolate #1) or (MaT3JB-C). *Popillia japonica* [Coleoptera: Scarabaeidae]. 1978. USA: Clinton Corners, New York.
- 1377 [ARSEF ?396] S Keller (48). *Agriotes sputator* [Coleoptera: Elateridae]. 4 May 1977. Switzerland.
- 1885 [CP 174] DW Roberts ← SM dos Santos. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. 23 Apr 1985. Brazil: CNPAF, Goiânia, Goiás.
- 1901 DW Roberts ← MA Naves (CG-6). [Coleoptera: Carabidae]. Jan 1980. Brazil: Pará.
- 1903 DW Roberts (103a). *Conoderus* sp. [Coleoptera: Elateridae]. Acc'd 11 Jun 1985. USA.
- 1958 [CNPAF 85-7-24-1; CP 184] JC Lord and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 24 Jul 1985. Brazil: Ribeira do Pombal, Bahia.
- 1989 [ARSEF 1452 (deaccessioned); CNPAF 53; CP 126] F Moscardi. *Sternechus subsignatus* [Coleoptera: Curculionidae]. 27 Mar 1984. Brazil: Soybean Center, Londrina, Paraná.
- 2076 [CP 194] JC Lord and BP Magalhães. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 1985. Brazil: CNPAF, Goiânia, Goiás.
- 2077 [CP 195] JC Lord and BP Magalhães. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 1985. Brazil: CNPAF, Goiânia, Goiás.
- 2135 T Searle (F). *Phyllophaga ?anxia* [Coleoptera: Scarabaeidae]. Jul 1985. Canada: Southern Québec.
- 2136 T Searle (K). *Phyllophaga ?anxia* [Coleoptera: Scarabaeidae]. Jul 1985. Canada.
- 2137 T Searle (Q). *Phyllophaga ?anxia* [Coleoptera: Scarabaeidae]. Jul 1985. Canada: Southern Québec.
- 2138 T Searle (W). *Phyllophaga ?anxia* [Coleoptera: Scarabaeidae]. Jul 1985. Canada: Southern Québec.
- 2139 T Searle (Z). *Phyllophaga ?anxia* [Coleoptera: Scarabaeidae]. Aug 1985. Canada: Southern Québec.
- 2156 BN Muthappa (PNG 12711). Adult, *Oryctes* sp. [Coleoptera: Scarabaeidae]. Rec'd 12 May 1986. Papua New Guinea.

- 2163 BN Muthappa (PNG 12722). Larva, [Coleoptera: Scarabaeidae]. Rec'd 12 May 1986. Papua New Guinea.
- 2165 BN Muthappa (PNG 12724). Larva, *Oryctes* sp. [Coleoptera: Scarabaeidae]. Rec'd 12 May 1986. Papua New Guinea.
- 2166 BN Muthappa (PNG 12726). Larva, *Oryctes* sp. [Coleoptera: Scarabaeidae]. Rec'd 12 May 1986. Papua New Guinea.
- 2167 BN Muthappa (PNG 12727). Larva, *Oryctes* sp. [Coleoptera: Scarabaeidae]. Rec'd 12 May 1986. Papua New Guinea.
- 2513 [CP 236A] SM dos Santos. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Oct 1986. Brazil: CNPAF, Goiânia, Goiás.
- 2548 SV Krueger ← FL Consolie and MG Villani. *Popillia japonica* [Coleoptera: Scarabaeidae]. Oct 1987. USA: Sleepy Hollow, New York.
- 2635 [CNPaf 88-5-6B; CP 253] DW Roberts ← E Dias Quintela. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 6 May 1988. Brazil: CNPAF, Goiânia, Goiás.
- 2941 [CP 272] SP Wraight ← DR Sosa-Gómez. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 8 Nov 1988. Brazil: CNPAF, Goiânia, Goiás.
- 3056 [MAF F11] T Glare. *Costelytra zealandica* [Coleoptera: Scarabaeidae]. Rec'd Oct 1990. New Zealand: Canterbury Plains, South Island.
- 3057 [MAF F12] T Glare. *Costelytra zealandica* [Coleoptera: Scarabaeidae]. Rec'd Oct 1990. New Zealand: South Island.
- 3148 INRA (Ma-181) ← A Caudal. *Haphochelus marginalis* [Coleoptera]. May 1983. France: Réunion.
- 3305 J Gutierrez Samperio (21) ← ERD Reyes. *Geraeus senilis* [Coleoptera: Curculionidae] on corn. 1990. Mexico: Colima.
- 3306 J Gutierrez Samperio (22) ← ERD Reyes. *Geraeus senilis* [Coleoptera: Curculionidae] on corn. 1990. Mexico: Colima.
- 3308 J Gutierrez Samperio (24) ← ERD Reyes. *Geraeus senilis* [Coleoptera: Curculionidae] on corn. 1990. Mexico: Colima.
- 3329 DW Roberts ← AS Martins (A-1). 3rd instar larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. Spring 1988. Portugal: Terceira Island, Azores.
- 3330 SV Krueger (MaJB1). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3331 SV Krueger (MaJB2). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3332 SV Krueger (MaJB3). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3333 SV Krueger (MaJB6). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3334 SV Krueger (MaJB7). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3335 SV Krueger (MaJB8). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3336 SV Krueger (MaJB9). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3337 SV Krueger (MaJB10). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3338 SV Krueger (MaJB11). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3339 SV Krueger (MaJB12). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3340 SV Krueger (MaJB13). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3389 I Majchrowicz (T-11-4). *Tribolium castaneum* [Coleoptera: Tenebrionidae] on apple. 16 Jul 1991. USA: Seto Farm, Granger, Washington.
- 3479 CENARGEN (CG 339). [Coleoptera: Scarabaeidae]. 1991. Brazil: Brasília, Distrito Federal.
- 3713 RA LeBrun ← J Hanula (C-5). Larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. 3 Jun 1991. USA: Clinton, Connecticut.
- 3720 RA LeBrun ← J Hanula. Larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. 20 May 1991. USA: Windsor, Connecticut.
- 4125 [DAT 2] AC Rath (F124). *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. 2 May 1986. Australia.
- 4132 [DAT 11] AC Rath (F011). Larva, *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. 1983. Australia: Eyre Pennisular, South Australia.
- 4133 [DAT 12] AC Rath (F012). Larva, *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. 1983. Australia: Aldgate, South Australia.
- 4134 [DAT 14] AC Rath (F014). Larva, *Sericethis* sp. [Coleoptera: Scarabaeidae]. 8 May 1986. Australia: Laboratory, Newtown, Tasmania.
- 4137 [DAT 19] AC Rath (F019). Larva, *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 1986. Australia: Laboratory, Newtown, Tasmania.
- 4138 [DAT 20] AC Rath (F020). Larva, *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 1 Dec 1986. Australia: NW Coast, Tasmania.
- 4139 [DAT 24] AC Rath (F024). *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. 1 Dec 1986. Australia: South Australia.
- 4141 [DAT 29] AC Rath (F029). *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 1987. Australia: Woodbury, Tasmania.
- 4142 [DAT 36] AC Rath (F036). *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 1987. Laboratory.
- 4236 [DAT 13] AC Rath (F013). Larva, *Sericethis* sp. [Coleoptera: Scarabaeidae]. 5 Aug 1986. Australia: Laboratory, Newtown, Tasmania.
- 4239 [DAT 34] AC Rath (F034). *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 1987. Laboratory.

- 4290 [DAT 493] AC Rath (F493) ← W Theunis (SOL IS 17). Adult, [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.
- 4333 [DAT 483] AC Rath (F483) ← W Theunis (SOL IS 6). Pupa, [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.
- 4334 [DAT 492] AC Rath (F492) ← W Theunis (SOL IS 16). Larva(L3), [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.
- 4335 [DAT 484] AC Rath (F484) ← W Theunis (SOL IS 7). Larva(L3), [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.
- 4336 [DAT 488] AC Rath (F488) ← W Theunis (SOL IS 12). Adult, [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.
- 4337 [DAT 490] AC Rath (F490) ← W Theunis (SOL IS 14). Larva(L3), [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.
- 4338 [DAT 486] AC Rath (F486) ← W Theunis (SOL IS 11). Pupa, [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.
- 4339 [DAT 485] AC Rath (F485) ← W Theunis (SOL IS 10). Pupa, [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.
- 4340 [DAT 489] AC Rath (F489) ← W Theunis (SOL IS 14). Pupa, [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.
- 4341 [DAT 487] AC Rath (F487) ← W Theunis (SOL IS 12). Adult, [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.
- 4346 [DAT 33] AC Rath (F033). *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. Rec'd 6 Jun 1994. Australia: Woodbury, Tasmania.
- 4557 [DAT 481] AC Rath (F481). Pupa, [Coleoptera]. 22 Jun 1993. Solomon Islands.
- 4558 Pupa, [Coleoptera]. 22 Jun 1993. Solomon Islands.
- 4568 [DAT 510] AC Rath (F510). Larva, *Sericesthis micans* [Coleoptera: Scarabaeidae]. 11 Feb 1994. Australia: New South Wales.
- 4572 [DAT 479] AC Rath (F479) ← W Theunis (SOL IS 2). 3rd instar larva, [Coleoptera]. 22 Jun 1993. Solomon Islands.
- 4574 [DAT 516] AC Rath (F516). 3rd instar larva, *Anoplognathus hirsutus* [Coleoptera: Scarabaeidae]. 10 Mar 1994. Australia: Glen Innes, New England, New South Wales.
- 4582 [DAT 478] AC Rath (F478) ← W Theunis (SOL IS1). 3rd instar larva, [Coleoptera]. 22 Jun 1993. Solomon Islands.
- 4677 [DAT 433] AC Rath (F433). Adult, *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. Summer 1990. Australia: Dairy Research Unit, Elliott, Tasmania.
- 4716 [DAT 28] AC Rath (F028). *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 1987. Australia: Woodbury, Tasmania.
- 4722 [DAT 141] AC Rath (F141). Larva, *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. Spring 1989. Australia: Wilmot, Tasmania.
- 4777 [DAT 507] AC Rath (F507). Larva, *Sericesthis micans* [Coleoptera: Scarabaeidae]. 25 Oct 1993. Australia: Glen Innes, New England, New South Wales.
- 4778 [DAT 511] AC Rath (F511). Larva, *Sericesthis micans* [Coleoptera: Scarabaeidae]. 11 Feb 1994. Australia: New South Wales.
- 4779 [DAT 512] AC Rath (F512). 3rd instar larva, *Anoplognathus hirsutus* [Coleoptera: Scarabaeidae]. 24 Feb 1994. Australia: Glen Innes, New England, New South Wales.
- 4780 [DAT 513] AC Rath (F513). Larva, *Sericesthis nigrolineata* [Coleoptera: Scarabaeidae]. 10 Mar 1994. Australia: Glen Innes, New England, New South Wales.
- 4819 JD Vandenberg (63). Adult, *Otiorhynchus ligustici* [Coleoptera: Curculionidae] on *Medicago sativa* L., alfalfa. 26 Jun 1994. USA: Alfalfa field, Great Bend, New York.
- 4820 JD Vandenberg (18). Adult, *Otiorhynchus ligustici* [Coleoptera: Curculionidae] on *Medicago sativa* L., alfalfa. 26 Jun 1994. USA: Alfalfa field, Great Bend, New York.
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- 5842 T Steenberg (SSL 50). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from soil.
- 5848 T Steenberg (SSL 75). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from larvae of an unidentified beetle [Coleoptera].
- 5850 T Steenberg (SSL 84). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from an unidentified beetle [Coleoptera].
- 6388 TL Dubois (FS 3 # 1 (3)) ← SM Smith ← V D'Amico. Larva, late instar, *Anoplophora glabripennis* [Coleoptera: Cerambycidae] on twig. 19 Mar 1999. USA: Laboratory colony, USDA Forest Service, Hamden, Connecticut. Laboratory colony started from host originally obtained from infested maple wood collected in Chicago, Illinois, USA 5 March 1999.
- 6389 TL Dubois (SS 1 # 2 (1)) ← SM Smith. Larva, early instar, *Anoplophora glabripennis* [Coleoptera: Cerambycidae] from wood of *Acer* sp. 23 Mar 1999. USA: USDA APHIS ANG Base, Otis, Massachusetts. Laboratory colony started from host originally obtained from infested maple wood collected in Chicago, Illinois, USA 5 March 1999.
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- 6551 D Chandler (HRI 335.92). Larva, *Agriotes* sp. [Coleoptera: Elateridae]. Rec'd 13 Jul 2000. United Kingdom.
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- 6671 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Shewa Robin, Northern Shoa.
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- 7451 [CSIRO FI-0993] *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 28 Apr 1993. Australia: Larsen, Kingaroy, Queensland.
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- 7819 [CSIRO FI-0111] *Antitrogus parvulus* [Coleoptera: Scarabaeidae]. 30 Oct 1985. Australia: The Hummock, Bundaberg, Queensland.
- 7824 [CSIRO FI-0126] *Lepidiota gibbifrons* [Coleoptera: Scarabaeidae]. Jan 1986. Australia: Yeppoon, Queensland.
- 7825 [CSIRO FI-0143] *Lepidiota gibbifrons* [Coleoptera: Scarabaeidae]. 2 Apr 1986. Australia: Yeppoon, Queensland.
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- 8499 [CSIRO FI-0396] *Phyllophaga anxia* [Coleoptera: Scarabaeidae]. 29 Mar 1989. Canada: Southern Québec.
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- 8734 [CSIRO FI-0454] [Coleoptera: Staphylinidae]. 26 Apr 1989. Australia: Parissi pupation study site, Bundaberg, Queensland.
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- 8744 [CSIRO FI-1040] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 5 Mar 1994. Australia: Tully, Queensland.
- 8745 [CSIRO FI-1081] *Brontispa longissima* [Coleoptera: Chrysomelidae]. 20 May 1994. Australia: Darwin, Northern Territory.
- 8746 [CSIRO FI-1082] *Brontispa longissima* [Coleoptera: Chrysomelidae]. 20 May 1994. Australia: Darwin, Northern Territory.
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- 8748 [CSIRO FI-1107] *Papuana* sp. [Coleoptera: Scarabaeidae]. 14 Dec 1994. Papua New Guinea.
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- 8761 [CSIRO FI-1160] Larva, *Antitrogus consanguineus* [Coleoptera: Scarabaeidae]. May 1996. Australia: Bundaberg, Queensland.
- 8762 [CSIRO FI-1161] Adult, *Rhabdoscelus obscurus* [Coleoptera: Curculionidae]. May 1996. Australia: Northern Queensland, Queensland.

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- 8765 [CSIRO FI-1240] 3rd instar larva, *Rhopaea magnicornis* [Coleoptera: Scarabaeidae]. 1 Sep 1997. Australia: Condong, New South Wales.
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- 8767 [CSIRO FI-1247] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae]. 12 Sep 1997. Australia: Condong, New South Wales.
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- 8784 [ERL 216] BL Parker (AVRDC 0295B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
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- 8786 [ERL 220] BL Parker (AVRDC 0331B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8787 [ERL 221] BL Parker (AVRDC 0338B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8788 [ERL 222] BL Parker (AVRDC 0344B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8789 [ERL 223] BL Parker (AVRDC 0346B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8790 [ERL 224] BL Parker (AVRDC 0350B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8791 [ERL 225] BL Parker (AVRDC 0355B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8792 [ERL 227] BL Parker (AVRDC 0373B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8793 [ERL 228] BL Parker (AVRDC 0374B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8794 [ERL 229] BL Parker (AVRDC 0377B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8795 [ERL 329] BL Parker (AVRDC 0193B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 2008. Republic of China: Taiwan.
- 8796 [ERL 330] BL Parker (AVRDC 0205B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8797 [ERL 331] BL Parker (AVRDC 0246B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8798 [ERL 333] BL Parker (AVRDC 0153B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8799 [ERL 334] BL Parker (AVRDC 0168B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8828 [CSIRO FI-1228] *Rhabdoscelus obscurus* [Coleoptera: Curculionidae]. 4 Jun 1997. Australia: Innisfail, Queensland.
- 8829 [CSIRO FI-1242] 3rd instar larva, *Rhopaea magnicornis* [Coleoptera: Scarabaeidae] field infection. 1 Sep 1997. Australia: Condong, New South Wales.
- 8830 [CSIRO FI-1245] *Lepidiota consobrina* [Coleoptera: Scarabaeidae]. 2 Sep 1997. Laboratory infection.
- 8831 [CSIRO FI-1246] *Lepidiota consobrina* [Coleoptera: Scarabaeidae]. 2 Sep 1997. Laboratory infection.
- 8832 [CSIRO FI-1249] *Antitrogus parvulus* [Coleoptera: Scarabaeidae]. 22 Oct 1997. Laboratory experiment. Dose 5 after 1 week.
- 8833 [CSIRO FI-1256] *Antitrogus parvulus* [Coleoptera: Scarabaeidae]. 2 Sep 1997. Australia: Bundaberg, Queensland.
- 8834 [CSIRO FI-1257] *Antitrogus parvulus* [Coleoptera: Scarabaeidae]. 2 Sep 1997. Australia: Bundaberg, Queensland.
- 8837 [CSIRO FI-1263] *Cyclocephala* sp. [Coleoptera: Scarabaeidae]. 2 May 1998. Australia: Canberra, Australian Capital Territory.

- 8838 [CSIRO FI-1264] *Cyclocephala* sp. [Coleoptera: Scarabaeidae]. 2 May 1998. Australia: Canberra, Australian Capital Territory.
- 8839 [CSIRO FI-1267] *Dasygnathus dejeani* [Coleoptera: Scarabaeidae]. 12 May 1998. Australia: Burdekin, Queensland.
- 8844 [CSIRO FI-1313] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae]. 1 Apr 1999. Australia: Condong, New South Wales.
- 8845 [CSIRO FI-1314] *Lepidiota consobrina* [Coleoptera: Scarabaeidae]. 4 May 1999. Australia: Mackay, Queensland.
- 8847 [CSIRO FI-1316] *Rhabdoscelus obscurus* [Coleoptera: Curculionidae]. 4 May 1999. Australia: Mackay, Queensland.
- 8848 [CSIRO FI-1320] *Heteronychus arator* [Coleoptera: Scarabaeidae]. 4 May 1999. Australia: Western Australia.
- 8849 [CSIRO FI-1321] *Heteronychus arator* [Coleoptera: Scarabaeidae]. 4 May 1999. Australia: Western Australia.
- 8850 [CSIRO FI-1323] *Lepidiota consobrina* [Coleoptera: Scarabaeidae]. 6 May 1999. Australia: Mackay, Queensland.
- 8858 [ERL 230] BL Parker (AVRDC 0381B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8859 [ERL 231] BL Parker (AVRDC 0383B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8860 [ERL 234] BL Parker (AVRDC 0390B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8861 [ERL 235] BL Parker (AVRDC 0393B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8862 [ERL 236] BL Parker (AVRDC 0399B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8863 [ERL 237] BL Parker (AVRDC 0402B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8864 [ERL 238] BL Parker (AVRDC 0408B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8865 [ERL 239] BL Parker (AVRDC 0410B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8866 [ERL 240] BL Parker (AVRDC 0411B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8867 [ERL 241] BL Parker (AVRDC 0414B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8868 [ERL 337] BL Parker (AVRDC 0382B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8869 [ERL 338] BL Parker (AVRDC 0384B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8870 [ERL 340] BL Parker (AVRDC 0388B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8871 [ERL 342] BL Parker (AVRDC 0392B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8872 [ERL 343] BL Parker (AVRDC 0394B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8873 [ERL 345] BL Parker (AVRDC 0397B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8874 [ERL 347] BL Parker (AVRDC 0404B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8875 [ERL 348] BL Parker (AVRDC 0419B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8876 [ERL 349] BL Parker (AVRDC 0420B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8877 [ERL 350] BL Parker (AVRDC 0423B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8878 [ERL 352] BL Parker (AVRDC 0432B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8879 [ERL 353] BL Parker (AVRDC 0437B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8880 [ERL 354] BL Parker (AVRDC 0439B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8881 [ERL 355] BL Parker (AVRDC 0440B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8882 [ERL 356] BL Parker (AVRDC 0441B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8883 [ERL 357] BL Parker (AVRDC 0442B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8884 [ERL 358] BL Parker (AVRDC 0449B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8885 [ERL 359] BL Parker (AVRDC 0450B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

- 8886 [ERL 360] BL Parker (AVRDC 0451B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8887 [ERL 361] BL Parker (AVRDC 0458B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8893 [CSIRO FI-1244] *Antitrogus parvulus* [Coleoptera: Scarabaeidae]. 2 Sep 1997. Laboratory infection.
- 8894 [ERL 246] BL Parker (AVRDC 0467B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8895 [ERL 247] BL Parker (AVRDC 0468B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8896 [ERL 248] BL Parker (AVRDC 0469B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8897 [ERL 249] BL Parker (AVRDC 0470B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8898 [ERL 251] BL Parker (AVRDC 0477B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8899 [ERL 254] BL Parker (AVRDC 0483B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8900 [ERL 256] BL Parker (AVRDC 0485B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8901 [ERL 258] BL Parker (AVRDC 0492B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8902 [ERL 259] BL Parker (AVRDC 0500B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8903 [ERL 265] BL Parker (AVRDC 0523B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8904 [ERL 270] BL Parker (AVRDC 0549B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8905 [ERL 273] BL Parker (AVRDC 0555B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8906 [ERL 277] BL Parker (AVRDC 0567B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8907 [ERL 283] BL Parker (AVRDC 0592B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8908 [ERL 284] BL Parker (AVRDC 0599B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8909 [ERL 286] BL Parker (AVRDC 0611B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8910 [ERL 287] BL Parker (AVRDC 0612B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8911 [ERL 288] BL Parker (AVRDC 0614B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8912 [ERL 362] BL Parker (AVRDC 0459B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8913 [ERL 363] BL Parker (AVRDC 0462B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8914 [ERL 364] BL Parker (AVRDC 0465B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8915 [ERL 365] BL Parker (AVRDC 0493B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8916 [ERL 366] BL Parker (AVRDC 0520B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8941 [ERL 200] BL Parker (AVRDC 0154B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8942 [ERL 201] BL Parker (AVRDC 0166B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8943 [ERL 207] BL Parker (AVRDC 0238B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8944 [ERL 210] BL Parker (AVRDC 0245B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8945 [ERL 212] BL Parker (AVRDC 0262B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8946 [ERL 217] BL Parker (AVRDC 0303B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8947 [ERL 232] BL Parker (AVRDC 0385B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8948 [ERL 233] BL Parker (AVRDC 0389B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8949 [ERL 260] BL Parker (AVRDC 0506B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8950 [ERL 285] BL Parker (AVRDC 0602B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8951 [ERL 329] BL Parker (AVRDC 0193B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

Fungal Cultures

Metarhizium anisopliae sensu lato *Metarhizium brunneum*

- 8952 [ERL 335] BL Parker (AVRDC 0184B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8953 [ERL 336] BL Parker (AVRDC 0186B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8954 [ERL 341] BL Parker (AVRDC 0376B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8955 [ERL 346] BL Parker (AVRDC 0398B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 9217 B Kumashiro. *Blosyrus asellus* [Coleoptera: Curculionidae]. Rec'd 8 Jul 2009. USA: Pearl City, Hawaii.
- 9218 B Kumashiro. *Blosyrus asellus* [Coleoptera: Curculionidae]. Rec'd 8 Jul 2009. USA: sweet potato farm, Waipio, Hawaii.
- 9235 [ERL 276] BL Parker (AVRDC 0561B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 9236 [ERL 328] BL Parker (AVRDC 0076B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 9372 A Morales (#1B). Larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. 5 Nov 2004. USA: Battle Island State Park Golf Course, Fulton, New York.
- 9373 A Morales (#3). Larva, *Amphimallon majale* [Coleoptera: Scarabaeidae]. 2 Nov 2004. USA: Wayne Hills Country Club, Lyons, New York.
- 9374 A Morales (#6). Adult, *Listronotus maculicollis* [Coleoptera: Curculionidae]. 29 Jun 2005. USA: Robert Trent Jones Golf Course at Cornell University, Ithaca, New York.
- 10469 [CSIRO FI-1045] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 5 Mar 1994. Australia: Tully, Queensland. Patented, commercialized strain (Bio-Cane). **RESTRICTED ACCESS:** consult Curator.

***Metarhizium anisopliae* sensu stricto** (Metschnikoff) Sorokin
[Sordariomycetes: Hypocreales]
Clavicipitaceae. These isolates have been confirmed to belong in this narrowly redefined species in an emergent genetically based classification

- 2223 KJ Marschall. *Brontispa longissima* [Coleoptera: Chrysomelidae] from artificial production. Jun 1986. Western Samoa: Vaoala, Apia.
- 2518 [CP 224] *Conoderus* sp. [Coleoptera: Elateridae]. Acc'd 8 Dec 1987. New Zealand.
- 3924 DR Sosa-Gómez (CNPSo-Ma58) ← LJ Oliveira. *Phyllophaga cuyabana* [Coleoptera: Scarabaeidae]. 22 Nov 1990. Brazil: Boa Esperança, Paraná.

- 6546 D Chandler (HRI 36.79). *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Rec'd 13 Jul 2000. United Kingdom.

- 7450 [CSIRO FI-0976] Larva, *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 11 Jun 1992. Australia: Queensland.

Metarhizium brunneum Petch [Sordariomycetes: Hypocreales]

Clavicipitaceae. Restored from synonymy variously with *M. anisopliae* and *M. album* as part of the genomic classification of Bischoff et al. (2009).

- 346 [CSIRO FI24] *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. Acc'd 4 Apr 1980. Australia: Adelaide, South Australia.
- 472 [CSIRO FI55; DAR 29768] J Walker ← A Wescott. [Coleoptera: Scarabaeidae]. Sep 1977. Australia: BCRI, R.D. 66, Rydalmere, New South Wales.
- 817 GG Soares (17). 6th instar larva, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. 5 Mar 1982. France: Plougastel-Daoulas, Finistere.
- 820 GG Soares (A7) ← M Marchal. 6th instar larva, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Jan 1982. France: Angers, Maine-et-Loire.
- 1066 [ARSEF ?397] TJ Poprawski ← S Keller (92). Adult, *Melolontha melolontha* [Coleoptera: Scarabaeidae]. 29 May 1981. Switzerland: Iselisberg.
- 2107 [CBS 316.51; IMI 014746; NRRL 1944; QM 191] MC Rombach ← KB Raper and LP Rockwood. Larva, *Agriotes* sp. [Coleoptera: Elateridae]. 29 Jun 1933. USA: Forest Grove, Oregon. Ex-type isolate.
- 2210 [ARSEF 2225] MC Rombach (140486-1) ← H Beddu Rewa. [Coleoptera: Curculionidae] on palm tree. 22 Mar 1986. Indonesia: Baritiwurung (Butterfly Valley), nr. Ujungpandang, Sulawesi Selatan, Celebes.
- 2224 MC Rombach (140486). [Coleoptera: Curculionidae]. 14 Apr 1986. Indonesia.
- 3864 LA Lacey (92141). *Popillia japonica* [Coleoptera: Scarabaeidae]. 22 Oct 1992. Portugal: Terceira Island, Azores.
- 4020 T Steenberg (211) ← HP Ravn. *Sitona lineatus* [Coleoptera: Curculionidae]. Jul 1990. Denmark: Silkeborg, Århus.
- 4131 [DAT 10] AC Rath (F010). *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. 1983. Australia: Waitpinga, South Australia.
- 4228 [CRI 35-79; DAT 120] AC Rath (F120) ← AT Gillespie. Larva, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. 28 Jan 1988. Australia: Crops Research Inst..
- 5198 RA LeBrun (Bio 1020). *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Rec'd 20 May 1996. Germany.

- 5625 I Vänninen (SF85-56). Larva, *Tribolium castaneum* [Coleoptera: Tenebrionidae] as bait from soil. 10 Aug 1985. Finland: Toholampi, Vaasan Lääni.
- 5626 I Vänninen (SF86-38). Larva, *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. Aug 1986. Finland: Pälkäne, Hämeen Lääni.
- 6120 C López Lastra. Larva, *Diloboderus abderus* [Coleoptera: Scarabaeidae] from soil. Nov 1996. Argentina: Lincoln, Buenos Aires.
- 6392 TL Dubois (VD 5 rep b) ← V D'Amico. Adult, *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. Rec'd 22 Dec 1999. USA: Laboratory colony, USDA Forest Service, Ansonia, Connecticut.
- 6477 I Klingen (HAG.99). Larva, *Phyllopertha horticola* [Coleoptera: Scarabaeidae] in lawn. 18 Sep 1999. Norway: Moss, Østfold.

***Metarhizium flavoviride* W Gams & Rozsypal**
[Sordariomycetes: Hypocreales]
Clavicipitaceae

- 2024 [ARSEF 1184; INRA Mf-88] CBS (700.74) ← P Ferron. *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Acc'd 23 Oct 1985. France: Brittany, Morbihan.
- 8737 [CSIRO FI-1002] *Lachnostenra bidentata* [Coleoptera: Scarabaeidae]. 11 May 1993. Malaysia: Tapah.

Metarhizium flavoviride* var. *flavoviride
[Sordariomycetes: Hypocreales]
Clavicipitaceae

- 1184 [ARSEF 2024; CBS 700.74; INRA Mf-88] TJ Poprawski ← P Ferron. *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Jan 1974. France: Brittany, Morbihan.
- 4719 [DAT 130] AC Rath (F130). Adult, *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 1 Sep 1988. Australia: Campbelltown, Tasmania.
- 4720 [DAT 133] AC Rath (F133). Adult, *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 1 Sep 1988. Australia: Mt. Morriston, Ross, Tasmania.

***Metarhizium frigidum* Bischoff & Rehner in Bischoff, SA Rehner & Humber**
[Sordariomycetes: Hypocreales]
Clavicipitaceae. See Mycologia 98: 737-745 (2006)

- 4124 [DAT 1] AC Rath (F001) ← Reinganum (124). Larva, *Adoryphorus* sp. [Coleoptera: Scarabaeidae]. 10 Jun 1994. Australia: Ballarat, Victoria. 'Ex type' isolate.

Metarhizium guizhouense
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Segregated from the *M. anisopliae* species complex as part of genomic reclassification of Bischoff et al. (2009). Synonym: *M. taiti* ZQ Liang & AY Liu. Teleomorph: *Cordyceps taiti* ZQ Liang & AY Liu.

- 683 [QEC 433.0] DW Roberts (102381-9). Larva, [Coleoptera: Scarabaeidae] in sugar cane. 23 Oct 1981. PR

- China: Guanzhou, Kwon Tung.
- 819 GG Soares (21) ← JP Aeschlimann. 5th instar larva, *Sitona discoideus* [Coleoptera: Curculionidae]. 29 Mar 1982. France: Montpellier, Hérault.
- 977 [GCRI 134-82] RA Hall ← A Vey. *Melolontha melolontha* [Coleoptera: Scarabaeidae]. Acc'd 17 Oct 1983. France.
- 3603 IMI (152222) ← Deshpande. *Myllocerus discolor* [Coleoptera: Curculionidae]. Rec'd 26 Feb 1992. India: Mudigere.
- 4604 [DAT 473] AC Rath (F473) ← W Theunis (PNG 1). *Papuana woodlarkiana* [Coleoptera: Scarabaeidae]. 22 Jun 1993. Papua New Guinea: LAE.

***Metarhizium lepidiotae* (Driver & Milner) JF Bischoff, SA Rehner & Humber**
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Synonym: *M. anisopliae* var. *lepidiotae* Driver et al. (2000; as var. *lepidotum*). Placement of isolates here has been confirmed under the genomic reclassification of Bischoff et al. (2009).

- 7412 [CSIRO FI-0152] *Lepidiota consobrina* [Coleoptera: Scarabaeidae]. 17 Jun 1986. Australia: Mossman, Queensland.
- 7488 [ARSEF 7453; CSIRO FI-1042] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 5 Mar 1994. Australia: Tully, Queensland. Ex-type isolate used by Driver et al. (2000) to describe *Metarhizium anisopliae* var. *lepidiotae*.

***Metarhizium majus* (JR Johnston) JF Bischoff, SA Rehner & Humber**
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Synonym: *M. anisopliae* var. *majus* (JR Johnston) MC Tulloch. Placement of isolates here has been confirmed under the genomic classification of Bischoff et al. (2009).

- 978 [GCRI 148-82] RA Hall ← A Vey. *Oryctes rhinoceros* [Coleoptera: Scarabaeidae]. Acc'd 17 Oct 1983. France.
- 1858 DW Roberts (Pol-42). [Coleoptera: Scarabaeidae]. Acc'd 19 Mar 1985. Poland.
- 1859 DW Roberts (Pol-32). [Coleoptera: Scarabaeidae]. Acc'd 19 Mar 1985. Poland.
- 1914 MC Rombach. Larva, *Oryctes* sp. [Coleoptera: Scarabaeidae]. Apr 1985. Philippines: nr. Tiaong Experimental Station, Quezon. Ex-epitype isolate for this species.
- 1946 MC Rombach (MMQ). *Oryctes rhinoceros* [Coleoptera: Scarabaeidae]. Acc'd 11 Sep 1985. Philippines: Tiaong Experimental Station, Quezon.
- 4566 [DAT 514] AC Rath (F514). Larva, *Anoplognathus* sp. [Coleoptera: Scarabaeidae]. 10 Mar 1994. Australia: Leighlands, New England, New South Wales.
- 4601 [DAT 515] AC Rath (F515). Larva, *Anoplognathus* sp. [Coleoptera: Scarabaeidae]. 10 Mar 1994. Australia: Glen Innes, New South Wales.

7505 [CSIRO FI-1449] *Anoplognathus* sp. [Coleoptera: Scarabaeidae]. 12 Jun 2001. Australia: Northern Queensland, Queensland.

***Metarhizium pingshaense* QT Chen & HL Guo**
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Genomically confirmed and distinguished from *M. anisopliae* by the reclassification of Bischoff et al. (2009).

- 538 DW Roberts. *Oryctes rhinoceros* [Coleoptera: Scarabaeidae]. 20 Aug 1980. Thailand.
- 2162 BN Muthappa (PNG 12721). Larva, [Coleoptera: Scarabaeidae]. Rec'd 12 May 1986. Papua New Guinea.
- 2231 K Narayanan (7). *Zygogramma bicolorata* [Coleoptera: Chrysomelidae]. Rec'd 27 Aug 1986. India.
- 3210 RC Rajak (49). [Coleoptera]. Rec'd 3 Jun 1991. India.
- 3604 IMI (298059). *Scapanes australis* [Coleoptera: Scarabaeidae]. Rec'd 26 Feb 1992. Papua New Guinea.
- 4342 [DAT 491] AC Rath (F491) ← W Theunis (SOL IS 15). Larva(L3), [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.
- 4610 [DAT 480] AC Rath (F480) ← W Theunis (SOL IS 4). Pupa, [Coleoptera]. 22 Jun 1993. Solomon Islands.
- 5197 M Browning ← RA LeBrun ← CW McCoy (Mada). *Diaprepes abbreviata* [Coleoptera: Curculionidae]. Rec'd 20 May 1996. USA: Florida.
- 7410 [CSIRO FI-0114] *Antitrogus parvulus* [Coleoptera: Scarabaeidae]. 30 Oct 1985. Australia: The Hummock, Bundaberg, Queensland.
- 7417 [CSIRO FI-0295] *Antitrogus mussoni* [Coleoptera: Scarabaeidae]. 13 Oct 1988. Australia: Bundaberg, Queensland.
- 7435 [CSIRO FI-0700] *Costelytra zealandica* [Coleoptera: Scarabaeidae]. 8 Oct 1990. New Zealand: South Island.

***Metarhizium robertsii* JF Bischoff, SA Rehner & Humber**
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Segregated from *M. anisopliae* as part of a genomic reclassification by Bischoff et al. (2009). A complete genomic sequence of ARSEF 8820 (a single-spored reisolate of ARSEF 2575) is being compiled.

- 23 RS Soper (F84-1-1) ← RL Rabb. *Conoderus* sp. [Coleoptera: Elateridae]. 1961. USA: North Carolina.
- 724 [CNPAF 82-2-15-04; CP 25] RA Daoust. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. Feb 1982. Brazil: CNPAF, Goiânia, Goiás.
- 797 DA Rodriguez Sierra. Larva, *Ancognatha scarabaeoides* [Coleoptera: Scarabaeidae]. Jun 1981. Colombia: Madrid, Cundinamarca.
- 1046 J Aoki (Met. 6) ← K Yanase. *Popillia japonica* [Coleoptera: Scarabaeidae]. Jul 1977. Japan: Fuchu, Tokyo Prefecture.

- 1298 DW Roberts (single spore isolate #9) or (MaT3JB-B). *Popillia japonica* [Coleoptera: Scarabaeidae]. Feb 1978. USA: Clinton Corners, New York.
- 1878 DW Roberts (MaT3JB-A). *Popillia japonica* [Coleoptera: Scarabaeidae]. 1978. USA: Clinton Corners, New York.
- 1897 DW Roberts (V-14 (F84 mutant)). *Conoderus* sp. [Coleoptera: Elateridae]. Acc'd 11 Jun 1985. USA: California.
- 1910 DW Roberts ← S Keller (Ma52(S4)). *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Acc'd 18 Jun 1985. Germany.
- 1968 DR Smitley. *Strigoderma arboricola* [Coleoptera: Scarabaeidae]. Aug 1985. USA: East Lansing, Michigan.
- 2134 T Searle (E). *Phyllophaga ?anxia* [Coleoptera: Scarabaeidae]. Jul 1985. Canada: Southern Québec.
- 2469 JK Liebherr. Larva, [Coleoptera: Carabidae]. 24 Aug 1987. Mexico: 10.5 km S of Amecameca, Tepetlixpa, Mexico.
- 2514 [CP 236B] SM dos Santos. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Oct 1986. Brazil: CNPAF, Goiânia, Goiás.
- 2547 SV Krueger ← FL Consolie and MG Villani. *Rhizotrogus majalis* [Coleoptera: Scarabaeidae]. Oct 1987. USA: Syracuse, New York.
- 2575 [ATCC MYA-3093; IMI I91-613] RJ St. Leger (ME-1) ← Tate and Lyle Ltd (Batch No. B1830). *Curculio caryae* [Coleoptera: Curculionidae]. Acc'd 21 Jul 1988. USA: South Carolina. Ex-type culture; a complete genomic sequencing is being obtained for a single-spored reisolate (ARSEF 8820) of this isolate.
- 2981 T Searle (CWMA). Larva, *Listronotus oregonensis* [Coleoptera: Curculionidae]. 1988. Canada: Saint-Jean, Québec.
- 3108 SV Krueger (MaEC1). *Rhizotrogus majalis* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3211 SV Krueger (MaEC2). *Rhizotrogus majalis* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3388 I Majchrowicz (3a). *Tribolium castaneum* [Coleoptera: Tenebrionidae] on asparagus. 16 Jul 1991. USA: Orchard Farm, Yakima, Washington.
- 3608 [ARSEF 2575] IMI (I91-613) ← RJ St. Leger (ME-1) ← Tate and Lyle Ltd (Batch No. B1830). *Curculio caryae* [Coleoptera: Curculionidae]. Rec'd 26 Feb 1992. USA.
- 3721 RA LeBrun ← J Hanula. Larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. 3 Jun 1991. USA: Clinton, Connecticut.
- 4123 [ARSEF 2547] L Marold (ARSEF2547). *Rhizotrogus majalis* [Coleoptera: Scarabaeidae]. Rec'd 2 May 1994. USA: Syracuse, New York. Replaces ARSEF 2547.

- 5149 DL Hostetter (T100) ← IOB Armas. Larva, *Popillia japonica* [Coleoptera: Scarabaeidae] soil, pasture. 23 Jan 1996. Portugal: Terceira Island, Azores.
- 6472 SR Grugel. *Dectes texanus* [Coleoptera: Cerambycidae]. 3 Nov 1998. USA: Goodland, Kansas.
- 7424 [CSIRO FI-0358] Larva, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 8 Feb 1989. Australia: Busselton, Western Australia.
- 7449 [CSIRO FI-0911] *Heteronyx* sp. [Coleoptera: Scarabaeidae]. 23 Jun 1992. Australia: Queensland.

Mixed Culture sp.

The two members in these mixed cultures have not been successfully separated.

- 1043 J Aoki (Paec. 1). *Pyrrhalta fuscipennis* [Coleoptera: Chrysomelidae]. May 1973. Japan: Towada City, Aomori Prefecture. Single Spore Isolation attempted 8vi95. Mixture of PAESP @ VERTSP.
- 4387 LA Lacey (94138). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 5 May 1994. China: Cangzhou. Paecilomyces fumosoroseus and Beauveria brongniartii.
- 5188 S Gouli (GA-98). [Coleoptera: Lampyridae]. 26 May 1995. USA: Motyka's sugar maple stand, Williamstown, Vermont.

***Mucor circinelloides* van Tieghem**

[Mucormycotina: Mucorales]

Mucoraceae

- 6470 LS Bauer (2UIC2463). Larva, *Anoplophora glabripennis* [Coleoptera: Cerambycidae] from laboratory colony, USDA Forest Service, NCRS. Rec'd 19 Feb 2000. USA: East Lansing, Michigan.

***Ophiocordyceps aphodii* (Mathieson) GH Sung, JM Sung, Hywel-Jones & Spatafora**

[Sordariomycetes: Hypocreales]

Ophiocordycipitaceae. Synonym: *Cordyceps aphodii* Mathieson

- 5498 [ATCC 34178; CBS 150.47] Larva, *Aphodius howitti* [Coleoptera: Scarabaeidae]. Rec'd 5 Jun 1997. Location not specified.

***Paecilomyces* sp.**

[Sordariomycetes: Hypocreales]

These still unidentified species has yet been assigned to a correct genus after the recent gene-based reclassification of species out of *Paecilomyces* Section *Isarioidea*; this original generic identification remains provisional until a more thorough analyses of these isolates are completed.

- 5184 S Gouli (GA-94). [Coleoptera: Curculionidae]. 25 Jun 1995. USA: Motyka's sugar maple stand, Williamstown, Vermont.
- 5193 S Gouli (GA-103). [Coleoptera: Curculionidae]. 23 Jun 1995. USA: R. Angellillo's sugar maple stand, North Field, Vermont.

***Paecilomyces canadensis* (Vuillemin) Brown & Smith**

[Sordariomycetes: Hypocreales]

This species is usually treated as a synonym of *Isaria farinosa* but both this and any ultimate reclassification remain to be determined.

- 984 [FPMI 757] J Aoki (Paec. 6) ← K Katagiri ← T Kushida. *Heptophylla picea* [Coleoptera: Scarabaeidae]. Feb 1972. Japan: Hachioji, Tokyo Prefecture.

***Pandora blunckii* (Lakon ex Zimmerman) Humber**

[Entomophthoromycotina: Entomophthorales]

Entomophthoraceae

- 915 S Keller (426). *Athalia rosae* [Coleoptera: Elateridae]. 1 Sep 1982. Switzerland.

- 917 S Keller (425). *Athalia rosae* [Coleoptera: Elateridae]. 1 Sep 1982. Switzerland: Zürich.

- 920 S Keller (430). *Athalia rosae* [Coleoptera: Elateridae]. 1 Sep 1982. Switzerland: Zürich.

- 1715 S Keller (514). *Athalia rosae* [Coleoptera: Elateridae]. 3 Oct 1984. Switzerland: Reckenholz, Zurich.

- 1716 S Keller (515). *Athalia rosae* [Coleoptera: Elateridae]. 3 Oct 1984. Switzerland: Reckenholz, Zurich.

- 1717 S Keller (516). *Athalia rosae* [Coleoptera: Elateridae]. 3 Oct 1984. Switzerland: Reckenholz, Zurich.

- 1718 S Keller (517). *Athalia rosae* [Coleoptera: Elateridae]. 3 Oct 1984. Switzerland: Reckenholz, Zurich.

***Paraisaria dubia* Samson & BL Brady**

[Sordariomycetes: Hypocreales]

Ophiocordycipitaceae

- 5764 DG Holdom (900118-01). Larva, *Antitrogus rugulosus* [Coleoptera: Scarabaeidae: Melolonthinae] under sugar cane, in sandy soil. Sep 1990. Australia: On the coastal plain south of Brisbane, Rocky Point, Queensland.

***Penicillium* sp.**

[Eurotiomycetes: Eurotiales]

Trichocomaceae. No species of this genus have been satisfactorily demonstrated to be a primary pathogen of insects. Its presence on or in insect cadavers should be interpreted as necrophytic or accidental.

- 2950 [CP 278] SP Wraight ← E Dias Quintela. *Chalcodermus bimaculatus* [Coleoptera: Curculionidae]. 23 Jun 1989. Brazil: CNPAF, Goiânia, Goiás.

- 3036 W Mechaber (weevil#2272). Adult, *Anthonomus musculus* [Coleoptera: Curculionidae] on *Vaccinium angustifolium*. 20 May 1990. USA: Carver, Massachusetts.

***Pochonia bulbillosa(?)* (W Gams & Malla) Zare & W Gams**

[Sordariomycetes: Hypocreales]

Clavicipitaceae

- 3035 W Mechaber (weevil#2209). Adult, *Anthonomus*

musculus [Coleoptera: Curculionidae] on *Gaylussacia baccata*. 20 May 1990. USA: Carver, Massachusetts.

Pochonia chlamydosporia (Goddard) Zare & W Gams
[Sordariomycetes: Hypocreales]
Clavicipitaceae. Major synonym: *Verticillium chlamydosporium* Goddard

3314 M Brownbridge. Larva, [Coleoptera: Scarabaeidae]. Rec'd 19 Mar 1991. USA: Perry's sugar maple stand, Orange County, Vermont.

Pochonia chlamydosporia var. ***chlamydosporia***
[Sordariomycetes: Hypocreales]
Clavicipitaceae. Synonym: *Verticillium chlamydosporium* Goddard

2218 [CNPAF 86-06-05-6; CP 214] DW Roberts ← DMF Capalbo. *Lagria vilosa* [Coleoptera: Lagriidae]. 5 Jun 1986. Brazil: CNPAF, Goiânia, Goiás.

Polycephalomyces sp.
[Sordariomycetes: Hypocreales]

9496 [SRCAMB VL-1325/1] V Likhovidov. [Coleoptera]. 8 Jul 2003. Russian Federation: Vladivostok, Primorsky Krai. Field Collection Number F-619.

9497 [SRCAMB VL-1951] V Likhovidov. [Coleoptera: Carabidae]. 25 Aug 2005. Belarus: Belavezhskaya Puscha National Park. Field Collection Number F-1106.

Polycephalomyces formosus Kobayasi
[Sordariomycetes: Hypocreales]

1424 S Balazy (1431). Larva, *Calosoma* sp. [Coleoptera: Carabidae] at ground level in deciduous forest. 29 Jul 1981. Poland: Wielkopolski National Park. Received as *Acremonium terricola* (Miller et al.) W. Gams.

Purpureocillium lilacinum (Thom) Luangsa-ard, Houbraken, Hywel-Jones & Samson
[Sordariomycetes: Hypocreales]

Synonym: *it Paecilomyces lilacinus*. Ophiocordycipitaceae. This species is the type of a monotypic new genus erected following the phylogenetic reclassification of *Paecilomyces* Section *Isarioidea*. This species can cause human mycoses, mainly of the eye, but probably presents little or no risk if handled with routine sterile microbiological techniques for transfers or bioassay procedures, etc. Avoid chronic and/or large-scale exposure to airborne conidia to minimize any health risks.

410 CW McCoy. *Diaprepes abbreviata* [Coleoptera: Curculionidae]. 20 Jul 1979. USA: Apopka, Florida.

723 [CNPAF 82-1-6-10; CP 17] RA Daoust. *Lagria vilosa* [Coleoptera: Lagriidae]. 6 Jan 1982. Brazil: CNPAF, Goiânia, Goiás.

1951 [CENARGEN CG 301; CNPAF 85-05-02; CP 176] R Pereira. *Cerotoma* sp. [Coleoptera: Chrysomelidae]. 2 May 1985. Brazil: Campos, Rio de Janeiro.

2952 [CP 273] SP Wright ← CA da Silva. *Lagria vilosa* [Coleoptera: Lagriidae]. 8 Nov 1988. Brazil: CNPAF, Goiânia, Goiás.

5876 FE Vega (EBCL 98005). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. Oct 1997. Benin: Niaouli.

5877 FE Vega (EBCL 98008). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. Oct 1997. Benin: Niaouli.

5880 FE Vega (EBCL 98015). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. Oct 1997. Benin: Niaouli.

5882 FE Vega (EBCL 98022). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. Oct 1997. Benin: Niaouli.

6110 BL Parker (SPT-2-279). Adult, [Coleoptera: Scarabaeidae]. 24 Jan 1999. Syria: Al Kseabiaa.

6188 FE Vega (EBCL 99024). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Dec 1998. Benin: Site 3, Niaouli.

6190 FE Vega (EBCL 99027). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Dec 1998. Benin: Site 2, Niaouli.

8918 [ERL 196] BL Parker (AVRDC 0058B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8919 [ERL 213] BL Parker (AVRDC 0286B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8920 [ERL 267] BL Parker (AVRDC 0527B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8921 [ERL 268] BL Parker (AVRDC 0529B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

8922 [ERL 280] BL Parker (AVRDC 0587B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

9371 A Morales (#1A). Larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. 5 Nov 2004. USA: Battle Island State Park Golf Course, Fulton, New York.

9524 [SRCAMB VL-2059] V Likhovidov. Larva, [Coleoptera: Elateridae] Isolated from *Cordyceps* sp. Aug 2005. Belarus: Belavezhskaya Puscha National Park. Field Collection Number F-882.

Scopulariopsis sp.
[Sordariomycetes: Microascales]

2169 BN Muthappa (PNG 12725). [Coleoptera: Curculionidae]. Rec'd 12 May 1986. Papua New Guinea.

2327 TJ Poprawski (8651). Nymph, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae] on potato. 6 Nov 1986. France: Cognac, Charente.

8421 AE Hajek (WU6). *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. Jul 2000. PR China: Wuhe, Anhui.

Simplicillium lamellicola (FEV Smith) Zare & W Gams
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Major synonym: *Verticillium lamellicola* (F.E.V. Smith) W Gams

9479 [SRCAMB VL-1786] V Likhovidov. *Carabus* sp.
[Coleoptera: Carabidae]. 29 Aug 2005. Ukraine:
Autonomous Republic of Crimea. Field Collection
Number F-738.

Sorosporella uvella (Krassiltschik) Giard
[Sordariomycetes: Hypocreales]

Sorosporella is the chlamydosporic state of fungi whose conidial states are classified as *Syngliocladium* species. Clumps of chlamydospores germinate and produce fasciculate synnemata bearing clusters of *Syngliocladium* phialides.

1123 PP Sikorowski ← J Kuhre. 4th instar larva, *Curculio caryae* [Coleoptera: Curculionidae] pecan tree. 14 Dec 1983. USA: West Helena, Arkansas.

Sporothrix insectorum de Hoog & HC Evans
[Sordariomycetes: Ophiostomatales]
Ophiostomataceae

9502 [SRCAMB VL-2052] V Likhovidov. Adult, *Carabus* sp. [Coleoptera: Carabidae]. 1993. Russian Federation: Kunashir Island, Sakhalin Region. Field Collection Number F-890.

Sterile mycelium

4009 T Steenberg (135) ← A Kirkeby-Thomse. Pupa,
[Coleoptera: Cerambycidae] on spruce. Sep 1988.
Denmark: Grib Skov, Zealand.

4243 [DAT 26] AC Rath (F26). *Adoryphorus coulonii* [Coleoptera: Scarabaeidae]. 1986. Australia: Newtown, Tasmania.

Stilbella buquetii (Montagne & Robin) Samson & HC Evans
[Sordariomycetes: Hypocreales]

2915 CBS (511.88). *Artipes* sp. [Coleoptera: Curculionidae]. 1988. USA: Florida.

Synnematium jonesii Speare
[Sordariomycetes: Hypocreales]
Ophiocordycipitaceae

5664 [ATCC 44767; IMI 205309] *Promecotheca papuana* [Coleoptera: Hispinae]. Rec'd 10 Feb 1998. Papua New Guinea.

***Tilachlidium* sp.**
[Hyphomycetes]

2415 M Shimazu (F-545). [Coleoptera: Elateridae]. 14 Jul 1986. Japan: Hachioji, Tokyo Prefecture.

10132 [ERL 1790] S Gouli and W Reid (BS-2010-1).
[Coleoptera: Chrysomelidae]. 2010. USA: Florida.

Tolypocladium cylindrosporum W Gams
[Sordariomycetes: Hypocreales]

Ophiocordycipitaceae

7456 GM Duke and MS Goettel (LRC 172). [Coleoptera: Elateridae]. 12 May 2003. Canada: Agassiz, British Columbia.

7812 [SRCAMB VL-389] V Likhovidov. Larva, [Coleoptera: Elateridae] Isolated from stroma. 8 Aug 2001. Russian Federation: Lazovsky Nature Reserve, Primorsky Krai. Field Collection Number F-268.

Tolypocladium inflatum W Gams

[Sordariomycetes: Hypocreales]

Ophiocordycipitaceae. Major synonym: *Tolypocladium niveum* (Rostrup) Bissett. Teleomorph: *Elaphocordyceps subsessilis* (Petch) GH Sung, JM Sung, Hywel-Jones & Spatafora

4877 KT Hodge (kth30A). [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.

4878 KT Hodge (kth30B). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485. .

4879 KT Hodge (kth30C). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.

4880 KT Hodge (kth30D). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.

4881 KT Hodge (kth30E). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485. .

4882 KT Hodge (kth30F). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.

4883 KT Hodge (kth30G). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan

- Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485..
- 4884 [ATCC 200994; CBS 305.95; CCFC 006988; UAMH 8723] KT Hodge (kth30H). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4885 KT Hodge (kth30I). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4886 KT Hodge (kth30J). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4887 KT Hodge (kth30K). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4888 KT Hodge (kth30L). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4889 KT Hodge (kth30M). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4890 KT Hodge (kth30N). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4891 KT Hodge (kth30O). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4892 KT Hodge (kth30P). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4893 KT Hodge (kth30Q). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4894 KT Hodge (kth30R). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4895 KT Hodge (kth30S). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4896 KT Hodge (kth30T). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4897 KT Hodge (kth30U). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4898 KT Hodge (kth30V). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- Verticillium** sp.
[Sordariomycetes: Hypocreales]
These species are being reclassified to the appropriate genus and species as they are being re-examined after the phylogenetically based reclassification of *Verticillium* Section *Prostrata*.
- 6484 BL Parker (SPT-KZ-412). Adult, [Coleoptera: Dermestidae] overwintering in soil. 3 Feb 2000. Kazakhstan: GPS Coordinates N 43°08.534' E 076°36.541'. **RESTRICTED ACCESS:**
contact Curator
- 6486 BL Parker (SPT-KR-415/2). Adult, [Coleoptera: Scarabaeidae] overwintering in soil. 11 Feb 2000. Kyrgyz Republic: GPS Coordinates N 43°40.597' E 075°02.855'. **RESTRICTED ACCESS:**
contact Curator

- 6501 BL Parker (SPT-KZ-458). Adult, [Coleoptera: Carabidae] overwintering in soil. 6 Feb 2000. Kazakhstan: GPS Coordinates N 43°08.530' E 076°36.526'. **RESTRICTED ACCESS:**

contact Curator

***Verticillium insectorum* (Petch) W Gams**
[Sordariomycetes: Hypocreales]

- 3715 RA LeBrun ← J Hanula (C-1). Adult, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Summer 1991. Location not specified.

***Verticillium lecanii* (Zimmerman) Viégas**
[Sordariomycetes: Hypocreales]

Cordycipitaceae. A species complex now reclassified in *Lecanicillium* and distributed among three species. Isolates remaining here are being transferred to the appropriate species as they are re-examined.

- 4022 T Steenberg (216) ← A Kirkeby-Thomse. *Agelastica alni* [Coleoptera: Chrysomelidae] on *Alnus* spp. Aug 1990. Denmark.

- 4047 T Steenberg (295). *Aphodius fimetarius* [Coleoptera: Scarabaeidae]. Mar 1992. Denmark: Copenhagen, Tåstrup, Zealand.

- 4048 T Steenberg (297). Larva, [Coleoptera: Cantharidae]. Mar 1992. Denmark: Copenhagen, Tåstrup, Zealand.

- 5849 T Steenberg (SSL 82). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from *Myzus persicae* [Homoptera: Aphididae].

- 5856 T Steenberg (SSL 607). Adult, *Carcinops pumilio* [Coleoptera: Histeridae]. Feb 1997. Denmark: Broiler house, Kværs, Jutland.

- 6487 BL Parker (SPT-KZ-417). Adult, [Coleoptera: Tenebrionidae] overwintering in soil. 6 Feb 2000. Kazakhstan: GPS Coordinates N 43°08.530' E 076°36.526'. **RESTRICTED ACCESS:**

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- 6545 D Chandler (HRI 33.79). *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Rec'd 13 Jul 2000. United Kingdom.

***Zoophthora anglica* (Petch) Ben-Ze'ev & RG Kenneth**
[Entomophthoromycotina: Entomophthorales]
Entomophthoraceae

- 396 [ARSEF ?1377] S Keller (48). *Agriotes sputator* [Coleoptera: Elateridae]. 4 May 1977. Switzerland.

- 1739 N Wilding (85). *Trechus quadristriatus* [Coleoptera: Carabidae]. 5 Sep 1978. United Kingdom: Rothamsted Experimental Station, Hertfordshire, England.

- 2505 J Eilenberg (KVL 12). *Agriotes sputator* [Coleoptera: Elateridae]. 2 Jun 1986. Denmark: Brogaard, Fårevejle, Vestsjælland.

***Zoophthora phytonomi* (Arthur) Humber, Ben-Ze'ev & RG Kenneth in Humber & Ben-Ze'ev**
[Entomophthoromycotina: Entomophthorales]
Entomophthoraceae

- 113 [ARSEF 82 (lost); ATCC 34292; FPMI 951] RG Kenneth (3085) ← A Uziel. Larva, *Hypera variabilis* [Coleoptera: Curculionidae] on alfalfa. Apr 1976. Israel: Sedé Eliyahu.

- 191 RG Kenneth (E.p. 2) or (3095) ← I Ben-Ze'ev. Larva, *Hypera variabilis* [Coleoptera: Curculionidae]. Apr 1976. Israel: Sedé Eliyahu.

- 192 RG Kenneth (3133) ← I Ben-Ze'ev. Larva, *Hypera variabilis* [Coleoptera: Curculionidae] on alfalfa. 2 Mar 1977. Israel: Sedé Eliyahu.

- 202 [RG Kenneth 3178] AA Muka ← JP Kramer. *Hypera punctata* [Coleoptera: Curculionidae]. Jul 1977. USA: Ithaca, New York.

- 2188 RJ Dysart. Larva, *Hypera punctata* [Coleoptera: Curculionidae]. 29 Apr 1986. USA: Farmington, Delaware.

- 3342 S Roberts. *Hypera postica* [Coleoptera: Curculionidae]. Spring 1991. USA: Eddyville, Illinois.

- 3343 S Roberts. *Hypera postica* [Coleoptera: Curculionidae]. Spring 1991. USA: LaSalle County, Illinois.

- 3344 S Roberts. *Hypera postica* [Coleoptera: Curculionidae]. Spring 1991. USA: Albion, Illinois.

Unidentified / Hyphomycetes

- 2225 [ARSEF 2210] MC Rombach (140486-1) ← H Beddu Rewa. [Coleoptera: Curculionidae] on palm tree. 22 Mar 1986. Indonesia: Baritiwurung (Butterfly Valley), nr. Ujungpandang, Sulawesi Selatan, Celebes.

- 2999 SV Krueger (MF-Ec). *Rhizotrogus majalis* [Coleoptera: Scarabaeidae]. Feb 1990. USA: Geneva, New York. [Hemiascomyete].

- 5223 LA Lacey (96001). *Popillia japonica* [Coleoptera: Scarabaeidae]. 13 May 1996. Japan: Golf course, Sapporo, Hokkaido.

- 5224 LA Lacey (96002). *Popillia japonica* [Coleoptera: Scarabaeidae]. 10 May 1996. Japan: Golf course, Sapporo, Hokkaido.

- 5225 LA Lacey (96003). *Popillia japonica* [Coleoptera: Scarabaeidae]. 10 May 1996. Japan: Golf course, Sapporo, Hokkaido.

- 5226 LA Lacey (96004). *Popillia japonica* [Coleoptera: Scarabaeidae]. 16 May 1996. Japan: Golf course, Sapporo, Hokkaido.

- 5227 LA Lacey (96005). *Popillia japonica* [Coleoptera: Scarabaeidae]. 16 May 1996. Japan: Golf course, Sapporo, Hokkaido.

- 5677 BL Parker (SPT-014). [Coleoptera: Coccinellidae]. 18 Jan 1998. Turkey: Hurbit Mountain, Hatay.

Fungal Cultures

- 5695 JM Sung (KEFC-1087). [Coleoptera: Curculionidae]. 9 Jul 1997. Republic of Korea: Yongmoon Mt., Gyeonggi Province.
- 8155 LS Bauer and H Liu (MF-246). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 28 Jul 2006. USA: Brighton, Michigan.
- 8179 LS Bauer and H Liu (MF-273). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Summer 2006. USA: Lansing, Michigan.
- 8183 LS Bauer and H Liu (MF-281). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Summer 2006. USA: Lansing, Michigan.
- 8184 LS Bauer and H Liu (MF-282). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 10 Aug 2006. USA: Lansing, Michigan.
- 8641 [CENARGEN CG 639] [Coleoptera]. Rec'd 18 Sep 2007. Ghana. **RESTRICTED ACCESS:** consult Curator.

Unidentified sp.

These fungi were accessioned without verified identifications. Many strains listed here will be reassigned to known taxa as quickly as the opportunity allows. Some strains are undescribed new species; some are sterile and may not be identifiable to a level lower than the class.

- 1634 [ARSEF 1667 (deaccessioned)] TJ Poprawski (0120). Nymph, [Coleoptera]. 27 Jun 1984. France: Saint-Étienne du Bois, Loire.
- 3471 CENARGEN (CG 304). *Sternechus subsignatus* [Coleoptera: Curculionidae]. 1990. Brazil: Passo Fundo, Rio Grande do Sul.
- 3478 CENARGEN (CG 311). *Aracanthus* sp. [Coleoptera: Curculionidae]. 1990. Brazil: Santa Maria, Rio Grande do Sul.
- 3714 RA LeBrun ← J Hanula (C-5). Larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. 1 Jul 1991. Location not specified.
- 3719 RA LeBrun ← J Hanula (W-2). Larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. Summer 1991. Location not specified.
- 3722 Larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. 21 Jun 1991. USA: Groton, Connecticut.
- 3724 S DeFazio. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Rec'd 18 May 1992. Location not specified.
- 3821 ERD Reyes (BbH) or (BbCO2). Adult, *Hippodamia convergens* [Coleoptera: Coccinellidae] OVERWINTERING SITE. 9 Oct 1992. Mexico: Guanajuato State.
- 3841 LA Lacey (92140). *Popillia japonica* [Coleoptera: Scarabaeidae]. Rec'd 24 Nov 1992. Portugal: Terceira Island, Azores.
- 3980 LA Lacey (93017) ← S Reichert. Adult, *Oulema melanopus* [Coleoptera: Chrysomelidae]. 19 Apr 1993. France: La Valette.

- 4037 T Steenberg (251). *Phyllotreta nigripes* [Coleoptera: Chrysomelidae]. Oct 1991. Denmark: Copenhagen, Tåstrup, Zealand.
- 4140 [DAT 25] AC Rath (F025). *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. 1986. Australia: Hamilton, Tasmania.

Host by Fungus

Acremonium alternatum *Beauveria bassiana*

Acremonium alternatum	[Coleoptera: Scarabaeidae] <i>Anomala cuprea</i> 1682	<i>Monochamus scutellatus</i> 7162 7163
	<i>Hypothenemus hampei</i> 7282	<i>Ortholeptura valida</i> 5997
Acremonium furcatum	[Coleoptera: Curculionidae] <i>Hypera postica</i> 1372	<i>Plectrodera scalarator</i> 7160 7161 7165
Aphanocladium album	[Coleoptera: Curculionidae] <i>Hypera postica</i> 1329	<i>Psacothea hilaris</i> 1041
Aspergillus sp.	[Coleoptera: Chrysomelidae] <i>Leptinotarsa decemlineata</i> 6571	[Coleoptera: Chrysomelidae] Unknown species 504 751 1971 7244 7247 7271 7272 8835 8836 10350
	[Coleoptera: Curculionidae] <i>Anthonomus grandis</i> 7048	<i>Cerotoma</i> 951 1458 1467
Aspergillus flavus	[Coleoptera: Cerambycidae] <i>Anoplophora glabripennis</i> 6469	<i>Cerotoma arcuata</i> 731 732 756 931 934 2075
	[Coleoptera: Scarabaeidae] <i>Pachnoda interrupta</i> 6454	<i>Crimissa</i> 786 788 805
	[Coleoptera: Tenebrionidae] <i>Tenebrio molitor</i> 9381	<i>Crimissa cruralis</i> 4001
Aspergillus nidulans(?)	[Coleoptera: Curculionidae] <i>Diaprepes abbreviata</i> 6515	<i>Diabrotica</i> 721 946 947 948 949 950 956 982 2512 2938 2942 3219 3287
Aspergillus parasiticus	[Coleoptera: Curculionidae] Unknown species 2173	<i>Diabrotica balteata</i> 3309
Batkoia sp.	[Coleoptera: Cantharidae] Unknown species 5810	<i>Diabrotica barberi</i> 2579
Beauveria sp.	[Coleoptera] Unknown species 5697 5831 7595	<i>Diabrotica paranaensis</i> 739 752 758 809 937 938
	[Coleoptera: Buprestidae] <i>Agrylus planipennis</i> 8110 8111 8112 8113 8116 8117 8119 8120 8121 8122 8123 8124 8125 8126 8127 8128 8129 8130 8132 8133 8134 8135 8136 8137 8138 8139 8140 8141 8143 8144 8145 8146 8147 8148 8149 8150 8151 8152 8153 8154 8156 8158 8159 8160 8161 8164 8166 8167 8168 8169 8170 8171 8172 8173 8174 8175 8176 8177 8178 8180 8181 8182 8185 8186 8187 8188	<i>Diabrotica speciosa</i> 928 958 1060 1453 1454 1455 1456 1459 1460 1461 1462 1463 1464 1465 1466 1469 1470 1471 1472 1473 1475 1476 1954 1961 2511 2515 2520 2625 2626 8373
	[Coleoptera: Chrysomelidae] <i>Basilepta fulvicornis</i> 8250 <i>Pachybrachis pallicornis</i> 547	<i>Diabrotica undecimpunctata</i> 201
	[Coleoptera: Coccinellidae] Unknown species 4853 5678 5833 7591 <i>Coccinella septempunctata</i> 4027	<i>Diabrotica virgifera</i> 2330 3111
	[Coleoptera: Curculionidae] Unknown species 7463 <i>Anthonomus grandis</i> 1835 <i>Hypera postica</i> 1327 <i>Shirahoshizo insidiosus</i> 1681	<i>Diabrotica virgifera virgifera</i> 9297 9298 9299 9300 9301 9302
	[Coleoptera: Elateridae] Unknown species 7580	<i>Galerucella</i> sp. 5465
	[Coleoptera: Lampyridae] Unknown species 5186	<i>Galerucina</i> 2463
		<i>Leptinotarsa decemlineata</i> 149 252 317 340 344 353 384 505 506 507 509 510 534 535 1039 1079 1081 1106 1619 1620 1621 1622 1623 1624 1704 1705 1706 1707 1708 1709 1710 1711 1712 1713 1721 1722 1723 1749 1750 1775 1776 1777 1778 1779 1780 1781 1982 2030 2031 2032 2695 2987 2988 2989 2990 2991 5286 5533 5534 5535 5536 5537 5807 5813 6986 6987 6988 8998 9441
		<i>Lilioceris lilii</i> 5195
		<i>Maecolaspis monrosi</i> 2509
		<i>Notonata</i> 3437 3438 3439 3441 3442 3444 3446 3447 3450 3451 3452 3455
		<i>Odontota dorsalis</i> 5553
		<i>Paropsis charybdis</i> 3066
		<i>Pyrrhalta luteola</i> 1509 1510 1511 1518 1519
		<i>Pyrrhalta viburni</i> 9449
		<i>Systema</i> 2079
		<i>Xanthogaleruca luteola</i> 5501
		[Coleoptera: Chrysomelidae: Hispinae] Unknown species 8494
		[Coleoptera: Coccinellidae] Unknown species 6055 6061 6062 6063 6074 6075 6092 6095 6111 6112
		<i>Coccinella</i> 2033 2034
		<i>Coccinella septempunctata</i> 2580 3534 4018
		<i>Coleomegilla maculata</i> 1956
		<i>Cycloneura sanguinea</i> 2010 8372 8462 8463

<i>Hippodamia convergens</i> 4973 4974 4975	[Coleoptera: Lagriidae] <i>Lagria vilosa</i> 2961	Beauveria brongniartii [Coleoptera] Unknown species 2660
[Coleoptera: Cucujidae: Silvaninae] <i>Ahasverus advena</i> 5857	[Coleoptera: Lampyridae] <i>Cratomorphus diaphanus</i> 8464	[Coleoptera: Carabidae] Unknown species 7268
[Coleoptera: Curculionidae] Unknown species 930 1061 2040 3667 4052 6216 6217 7202 7466 7471 7769 7978 8520 8521 8522 8523 8524 8525 8526 8530 8705	[Coleoptera: Languriidae] Unknown species 3457	[Coleoptera: Cerambycidae] <i>Anoplophora malasiaca</i> 6235 6412 <i>Niphonoclea</i> 1431
<i>Anthonomus grandis</i> 1966 2559 2638 2639 2945 2946 3097 7795	[Coleoptera: Nitidulidae] Unknown species 325	[Coleoptera: Curculionidae] Unknown species 6213 6214 6215 <i>Cyrtepistomus castaneus</i> 2271
<i>Anthonomus musculus</i> 3037	[Coleoptera: Pythidae] <i>Pytho</i> 1854	[Coleoptera: Elateridae] Unknown species 9452
<i>Apion</i> 4023	[Coleoptera: Rhizophagidae] <i>Rhizophagus grandis</i> 1848	[Coleoptera: Scarabaeidae] Unknown species 4380 4381
<i>Aracanthus</i> 753	[Coleoptera: Scarabaeidae] Unknown species 5669 6058 6686 7264	<i>Anomala costata</i> 985
<i>Ceutorhynchus litura</i> 3403	[Coleoptera: Scarabaeidae] <i>Adoryphorus coulonii</i> 4135 4136 4274 4721	<i>Costelytra zealandica</i> 3054 7761 <i>Holotrichia parallela</i> 4385 4386 4388 4465 4466 4467 4468 4469 4470 4471 4472 4473 4475 4476 4477 4478
<i>Chalcodermus</i> 941 942 943 953	<i>Ancognatha scarabaeoides</i> 2249 2250	<i>Melolontha</i> 5355 5356 5357 5358 5359 5360 5361 5362 5363 5364
<i>Chalcodermus aeneus</i> 336 337 733 734 735 736 738	<i>Anomala cuprea</i> 1683	<i>Melolontha melolontha</i> 617 979 1067 1068 1069 1070 1071 1072 1076 1077 7528
<i>Conotrachelus nenuphar</i> 1016 8260 8261 8262 8263	<i>Anoplognathus</i> 8763	<i>Popillia japonica</i> 4389 4458 4992 4993 4994 4995
<i>Cosmopolites</i> 1833	<i>Aphodius tasmaniae</i> 3070 8079	[Coleoptera: Scolytidae] <i>Ips typographus</i> 4024
<i>Cosmopolites sordidus</i> 1483 4798 4799	<i>Costelytra zealandica</i> 3055	Beauveria caledonica [Coleoptera]
<i>Curculio caryaef</i> 2676	<i>Pachynoda interrupta</i> 6669 6676 6681	Unknown species 2251
<i>Cyrtepistomus castaneus</i> 2270	<i>Phyllophaga</i> 5740 5741 5742 5743 5744 5745	[Coleoptera: Scarabaeidae] <i>Amphimallon solstitialis</i> 8024
<i>Diaprepes abbreviata</i> 412 416 433	<i>Popillia japonica</i> 3716 3717 5148 5150	[Coleoptera: Scolytidae] Unknown species 1567
<i>Geraeus senilis</i> 3310 3311	<i>Rhopaea magnicornis</i> 4130 7813 8853 8854	Beauveria malawiensis [Coleoptera: Cerambycidae] <i>Phoracantha semipunctata</i> 7760
<i>Heilipodus erythropus</i> 8461	<i>Sericesthis nigrolineata</i> 7853	Beauveria pseudobassiana [Coleoptera: Scolytidae] <i>Ips</i> 1855
<i>Hypera postica</i> 1389 1398 1399 1515 4038 4049	[Coleoptera: Scolytidae] Unknown species 1566 3040	<i>Tomicus minor</i> 4933
<i>Listronotus oregonensis</i> 2983 2984 2985 2986	<i>Dendroctonus ponderosae</i> 1849 1853	[Coleoptera: Scolytidae (Tribe Ipini)] Unknown species 6229
<i>Metamasius</i> 842	<i>Dryocoetes confusus</i> 1852 9184	Beauveria sungii [Coleoptera: Chrysomelidae] Unknown species 7279 7280
<i>Metamasius callizona</i> 5986	<i>Hypothenemus hampei</i> 1480 2685 2686 2687 2688 2689 2690 2691 2692 2693 3440 3443 3445 3448 3453 3818 3819 5436 5437 5438 5439 5440 5441 5442 5443 5444 5445 5446 5447 5448 5449 5450 5451 5452 5453 5454 5455 5456 5457 5458 5459 5460 5477 5478 5479 5480 5481 5482 5483 5484 5485 5486 5487 5488 5489 5490 6526 6527 6528 6529 6530 6531 6532 7758	[Coleoptera: Scarabaeidae] <i>Lachnosterna morosa</i> 1685
<i>Phylactinus callosus</i> 8756 8757	<i>Ips stenographus</i> 6900	Beauveria varroae [Coleoptera: Curculionidae] <i>Larinus</i> 2694
<i>Premnotrypes latithorax</i> 5983 5984	<i>Ips typographus</i> 7525 7526	Candida sp. [Coleoptera: Scolytidae] <i>Hypothenemus hampei</i> 5729
<i>Premnotrypes vorax</i> 2248	<i>Tomicus minor</i> 5070 5071	Cladosporium sphaerospermum [Coleoptera: Curculionidae] <i>Diaprepes abbreviata</i> 6516
<i>Rhynchites aequatus</i> 8037	[Coleoptera: Staphylinidae] Unknown species 3112 4055	
<i>Rhynchites baccus</i> 8668	<i>Anotylus rugosus</i> 4051 4056	
<i>Rhynchophorus ferrugineus</i> 6903	<i>Anotylus</i> sp. 4046	
<i>Sitona</i> 1647 3063 8077	<i>Gyrohypnus angustatus</i> 4054	
<i>Sitona discoideus</i> 816 1153 1154 1155 1163 1164 1171 1172 1173 1174 1175 1176 1177 1178 1179 1180 1181 1183 1185 1188 1189 1190 1191 1309 1311 1312 1313 1811 1815 1816 1817 1818 1819 1820 1821	<i>Tachyporus</i> sp. 4028	
<i>Sitona humeralis</i> 1491	[Coleoptera: Tenebrionidae] Unknown species 757 783 787 6057 6064 6077 6078 6096 6113 6478 6483	
<i>Sitona lineatus</i> 1156 1157 1158 1159 1160 1161 1162 1165 1167 1168 1169 1170 1182 1192 1193 1194 1306 4013 4015 4016 4019 4021 4041	<i>Alphitobius diaperinus</i> 5836 5838 5839 5840 5843 7941	
<i>Sitophilus</i> 7764 7773 7774	<i>Pterohelaeus darlingensis</i> 8065	
<i>Sternechus subsignatus</i> 1450	<i>Tenebrio molitor</i> 5623 8038	
[Coleoptera: Curculionidae: Apioninae] <i>Cylas formicarius elegantulus</i> 5981 5982	Beauveria bassiana(?) [Coleoptera: Chrysomelidae] Unknown species 6890 6891	
[Coleoptera: Elateridae] Unknown species 150 784 804 5670	[Coleoptera: Scolytidae] <i>Dendroctonus micans</i> 9271	

Host by Fungus

Clonostachys rosea *Lecanicillium muscarium*

Clonostachys rosea [Coleoptera: Scarabaeidae] Unknown species 9491	Harposporium janus [Coleoptera: Cerambycidae] Unknown species 5601	Isaria fumosorosea [Coleoptera] Unknown species 5694 9602
Conidiobolus sp. [Coleoptera: Curculionidae] <i>Hypera variabilis</i> 80 81	Hirsutella fusiformis [Coleoptera: Curculionidae] <i>Brachyderes incanus</i> 5474	[Coleoptera: Buprestidae] <i>Agrilus planipennis</i> 8142
Conidiobolus coronatus [Coleoptera: Curculionidae] <i>Ceutorhynchus napi</i> 1572 1573 1574 1575	Isaria sp. [Coleoptera] Unknown species 9519	[Coleoptera: Chrysomelidae] Unknown species 8840 <i>Pyrrhalta luteola</i> 1506 <i>Spaethiella</i> 2956
Conidiobolus osmodes [Coleoptera: Curculionidae] <i>Hypera variabilis</i> 79	Isaria amoenerosea [Coleoptera: Lagriidae] <i>Lagria vilosa</i> 741 744 2220 2958 2959 2960 4097	[Coleoptera: Coccinellidae] <i>Coccinella septempunctata</i> 9521
Cordyceps sp. [Coleoptera: Curculionidae] <i>Sitophilus oryzae</i> 4852 [Coleoptera: Scarabaeidae] Unknown species 7848 <i>Popillia japonica</i> 3718	[Coleoptera: Meloidae] Unknown species 4849	[Coleoptera: Lagriidae] <i>Lagria villosa</i> 722 2216 2217 2219 2221
Cordyceps brongniartii [Coleoptera: Scarabaeidae] <i>Anomala cuprea</i> 7516 7517	Isaria cateniannullata [Coleoptera: Curculionidae] Unknown species 6241 <i>Brachyderes incanus</i> 6243	[Coleoptera: Scarabaeidae] <i>Popillia japonica</i> 2679 <i>Rhopaea magnicornis</i> 8892
Cordyceps scarabaeicola [Coleoptera: Chrysomelidae] Unknown species 7277 7278	Isaria cateniobliqua [Coleoptera] Unknown species 6244	[Coleoptera: Scolytidae] <i>Hypothenemus hampei</i> 6730 7284
Engyodontium rectidentatum [Coleoptera: Scarabaeidae] Unknown species 7805	Isaria coleopterorum [Coleoptera: Lampyridae] Unknown species 9509	[Coleoptera: Tenebrionidae] <i>Alphitobius diaperinus</i> 5844 5845 5846 5847
Erynia sp. [Coleoptera: Cantharidae] Unknown species 2664 5352 <i>Rhagonycha fulva</i> 2525 2536 2537 2538 2539 2553 2663	Isaria farinosa [Coleoptera] Unknown species 2355 9516	<i>Tenebrio molitor</i> 5627
Evbachovaea sp. [Coleoptera: Elateridae] <i>Agriotes</i> 7403 [Coleoptera: Scarabaeidae] <i>Phyllophaga menetriesi</i> 7551 [Coleoptera: Scolytidae] <i>Dendroctonus rufipennis</i> 1017	[Coleoptera: Buprestidae] <i>Agrilus planipennis</i> 9944 9945	Isaria javanica [Coleoptera] Unknown species 7119
Evbachovaea kintrischica [Coleoptera: Chrysomelidae] <i>Agelastica alni</i> 7218 8058	[Coleoptera: Carabidae] <i>Agonum dorsale</i> 4029 4044 <i>Bembidion lampros</i> 4043 <i>Hapalus sp.</i> 4045	[Coleoptera: Curculionidae] <i>Litodactylus leucogaster</i> 322
Fusarium sp. [Coleoptera: Buprestidae] <i>Agrilus planipennis</i> 8131 [Coleoptera: Chrysomelidae] <i>Lilioceris lilii</i> 4011 [Coleoptera: Curculionidae] <i>Anthonomus musculus</i> 3030 3031 3032 <i>Chalcodermus aeneus</i> 2568 2569 <i>Conotrachelus nenuphar</i> 8266 8267 <i>Otiorhynchus ligustici</i> 4825 <i>Sitona discoideus</i> 1310 [Coleoptera: Scolytidae] <i>Dendroctonus micanus</i> 9273 9274 <i>Hypothenemus hampei</i> 5461 5875 5878 5879 6602 7063	[Coleoptera: Cerambycidae] <i>Anoplophora glabripennis</i> 8411 [Coleoptera: Chrysomelidae] Unknown species 6491 <i>Pyrrhalta luteola</i> 1507 1508	Lecanicillium sp. [Coleoptera: Silphidae] Unknown species 9459
	[Coleoptera: Coccinellidae] Unknown species 5754 5834 [Coleoptera: Curculionidae] <i>Otiorhynchus sulcatus</i> 2937 <i>Premnotrypes vorax</i> 799 <i>Sitona lineatus</i> 4039	Lecanicillium fungicola [Coleoptera: Elateridae] Unknown species 9483
	[Coleoptera: Lagriidae] <i>Lagria vilosa</i> 1957	Lecanicillium lecanii [Coleoptera: Buprestidae] <i>Agrilus planipennis</i> 8115
	[Coleoptera: Scarabaeidae] Unknown species 6488 6489	[Coleoptera: Cerambycidae] <i>Plectrodera scalator</i> 7181 7182
	[Coleoptera: Scolytidae] <i>Dendroctonus micanus</i> 9269 9270 9275 9276 9277 9278	[Coleoptera: Chrysomelidae] <i>Pyrrhalta luteola</i> 1505
	[Coleoptera: Silphidae] Unknown species 9511	Lecanicillium longisporum [Coleoptera: Staphylinidae] <i>Tachyporus hypnorum</i> 4050
	[Coleoptera: Staphylinidae] <i>Staphylinus olens</i> 4040	Lecanicillium muscarium [Coleoptera: Buprestidae] <i>Agrilus planipennis</i> 8114 8118 8157 8163 8165
	[Coleoptera: Tenebrionidae] Unknown species 5699	[Coleoptera: Curculionidae] Unknown species 7248
	<i>Alphitobius diaperinus</i> 5858	<i>Hypera postica</i> 1328 1401 1402 1403
	<i>Tenebrio molitor</i> 8917	[Coleoptera: Melyridae] <i>Pissodes strobi</i> 8048 8049 8050 8051 8052 8053 8054
		<i>Sitona lineatus</i> 4033
		[Coleoptera: Staphylinidae] <i>Malachius bipustulatus</i> 1335
		[Coleoptera: Scolytidae] <i>Dendroctonus micanus</i> 4036 9267 9268
		[Coleoptera: Tenebrionidae] <i>Tenebrio molitor</i> 8923

Lecanicillium muscarium(?)

[Coleoptera: Buprestidae]
Agrilus planipennis 8162
 [Coleoptera: Curculionidae]
Conotrachelus nenuphar 8265

Lecanicillium nr. aranearum

[Coleoptera: Lampyridae]
 Unknown species 9460

Lecanicillium pissodis

[Coleoptera: Curculionidae]
Pissodes strobi 8055 8056 8057

Lecanicillium sp. 2(?)

[Coleoptera]
 Unknown species 2832

Metarhizium sp.

[Coleoptera: Scarabaeidae]
Dermolepida albohirtum 7493
Rhopaea magnicornis 7495 8851 8852
 8855 8856 8857

Metarhizium anisopliae var. lepidotae

[Coleoptera: Scarabaeidae]
Dermolepida albohirtum 7453
Lepidiota consobrina 8732

Metarhizium anisopliae var. majus

[Coleoptera: Scarabaeidae]
Oryctes rhinoceros 2151 3145
Xyloryctes jamaicensis 297 298

Metarhizium anisopliae sensu lato

[Coleoptera]
 Unknown species 4290 4333 4334 4335
 4336 4337 4338 4339 4340 4341
 4557 4558 4572 4582

Haphochelus marginalis 3148

[Coleoptera: Bruchidae]
 Unknown species 932 954

[Coleoptera: Carabidae]
 Unknown species 939 1901

[Coleoptera: Cerambycidae]
Agriancome spinicollis 7498 7499 7500

Anoplophora glabripennis 6388 6389
 7180 7234 8415 8416 8417 8418
 8419 8420

[Coleoptera: Chrysomelidae]
Brontispa longissima 8745 8746 8747
Cerotoma arcuata 760 2076 2077 2635
 2941

Diabrotica 1885 2513

Diabrotica speciosa 1056 1958

[Coleoptera: Coccinellidae]
Coleomegilla maculata 808

[Coleoptera: Curculionidae]
 Unknown species 8098 8099

Blosyrus asellus 9217 9218

Chalcodermus aeneus 725 929

Desiantha diversipes 8568 8569

Geraeus senilis 3305 3306 3308

Listronotus maculicollis 9374

Otiorhynchus ligustici 4819 4820 4821
 4822 4823 4824

Otiorhynchus sulcatus 818 6549

Rhabdoscelus obscurus 8762 8828 8847

Sternechus subsignatus 1989

[Coleoptera: Elateridae]
 Unknown species 8543 8544 8545 8546
 8547 8548

Agriotes 6551 7494 7524

Agriotes sputator 1377

Conoderus 1903

Limonius canus 7000 7001 7002 7003
 7004 7005 7006 7007 7008 7009

[Coleoptera: Scarabaeidae]

Unknown species 2163 3479 7527 7529
Adoryphorus coulonii 4137 4138 4141
 4142 4239 4346 4677 4716 4722
 7815

Amphimallon majale 9373

Anomala 8738 8739 8740 8741 8742
 8743

Anoplognathus 8764

Anoplognathus hirsutus 4574 4779

Antitrogus consanguineus 8761

Antitrogus mussoni 7842 7865 7931

Antitrogus parvulus 7496 7819 7839
 7854 7864 8832 8833 8834 8893

Aphodius tasmaniae 4125 4132 4133
 4139 7845

Costelytra zealandica 3056 3057

Cyclocephala 8837 8838

Dasygnathus dejeani 8839

Dermolepida albohirtum 7452 7492
 8744 8754 8755 10469

Heteronychus arator 7932 7933 7934
 7935 7936 8549 8550 8551 8552

8553 8554 8555 8556 8557 8576
 8848 8849

Heteronyx 7843 7844 8586

Heteronyx piceus 7451 8500 8558 8559
 8582 8583 8592 8615 8616 8617

8618 8619 8620 8621

Heteronyx rugosipennis 8563 8564
 8565 8566 8567 8577 8610

Lepidiota consobrina 7411 7827 7828
 7846 8830 8831 8845 8850

Lepidiota frenchi 7829 7830 7831 8733

Lepidiota gibbifrons 7824 7825 7826

Lepidiota negatoria 7832

Lepidiota noxia 7504

Lepidiota picticollis 8501

Lepidiota squamulata 7816

Melolontha melolontha 7532

Oryctes 2156 2165 2166 2167

Pachnodia interrupta 6670 6671 6672
 6673 6674 6675 6677 6678 6679

6680 6682 6683 6684 6685

Papuana 8748

Phyllopertha horticola 6901

Phyllophaga ?anxia 2135 2136 2137
 2138 2139

Phyllophaga anxia 8499

Popillia japonica 1280 2548 3329 3330
 3331 3332 3333 3334 3335 3336

3337 3338 3339 3340 3713 3720

4907 4908 9372

Rhopaea magnicornis 8492 8765 8766
 8767 8829 8844

Rhopaea verreauxii 8495

Sericesthis micans 4568 4777 4778

Sericesthis nigrolineata 4780 7814
 7863

Sericethis 4134 4236

[Coleoptera: Staphylinidae]
 Unknown species 8734

[Coleoptera: Tenebrionidae]
Alphitobius diaperinus 5837 5841 5842
 5848 5850

Tenebrio molitor 8775 8776 8777 8778

8779 8780 8781 8782 8783 8784

8785 8786 8787 8788 8789 8790

8791 8792 8793 8794 8795 8796

8797 8798 8799 8858 8859 8860

8861 8862 8863 8864 8865 8866

8867 8868 8869 8870 8871 8872

8873 8874 8875 8876 8877 8878

8879 8880 8881 8882 8883 8884

8885 8886 8887 8894 8895 8896

8897 8898 8899 8900 8901 8902

8903 8904 8905 8906 8907 8908

8909 8910 8911 8912 8913 8914

8915 8916 8941 8942 8943 8944

8945 8946 8947 8948 8949 8950

8951 8952 8953 8954 8955 9235

9236
Tribolium castaneum 3389 5624

Metarhizium anisopliae sensu stricto

[Coleoptera: Chrysomelidae]
Brontispa longissima 2223

[Coleoptera: Curculionidae]
Otiorhynchus sulcatus 6546

[Coleoptera: Elateridae]
Conoderus 2518

[Coleoptera: Scarabaeidae]
Heteronyx piceus 7450

Phyllophaga cuyabana 3924

Metarhizium brunneum

[Coleoptera: Cerambycidae]
Anoplophora glabripennis 6392

[Coleoptera: Curculionidae]
 Unknown species 2210 2224

Otiorhynchus sulcatus 817 820 4228
 5198

Sitona lineatus 4020

[Coleoptera: Elateridae]
Agriotes 2107

[Coleoptera: Scarabaeidae]
 Unknown species 472

Aphodius tasmaniae 346 4131

Diloboderus abderus 6120

Melolontha melolontha 1066

Phyllopertha horticola 6477

Popillia japonica 3864

[Coleoptera: Tenebrionidae]
Tenebrio molitor 5626

Tribolium castaneum 5625

Metarhizium flavoviride

[Coleoptera: Curculionidae]
Otiorhynchus sulcatus 2024

[Coleoptera: Scarabaeidae]
Lachnostenra bidentata 8737

Host by Fungus

Metarhizium flavoviride var. *flavoviride* *Tolypocladium inflatum*

Metarhizium flavoviride var. flavoviride	<i>Rhizotrogus majalis</i> 2547 3108 3211 4123	Purpureocillium lilacinum
[Coleoptera: Curculionidae] <i>Otiorhynchus sulcatus</i> 1184	<i>Strigoderma arboricola</i> 1968	[Coleoptera: Chrysomelidae] <i>Cerotoma</i> 1951
[Coleoptera: Scarabaeidae] <i>Adoryphorus coulonii</i> 4719 4720	[Coleoptera: Tenebrionidae] <i>Tribolium castaneum</i> 3388	[Coleoptera: Curculionidae] <i>Diaprepes abbreviata</i> 410
Metarhizium frigidum	Mixed Culture sp.	[Coleoptera: Elateridae] Unknown species 9524
[Coleoptera: Scarabaeidae] <i>Adoryphorus</i> 4124	[Coleoptera: Chrysomelidae] <i>Pyrrhalta fuscipennis</i> 1043	[Coleoptera: Lagriidae] <i>Lagria villosa</i> 723 2952
Metarhizium guizhouense	[Coleoptera: Lampyridae] Unknown species 5188	[Coleoptera: Scarabaeidae] Unknown species 6110
[Coleoptera: Curculionidae] <i>Myllocerus discolor</i> 3603	[Coleoptera: Scarabaeidae] <i>Holotrichia parallela</i> 4387	<i>Popillia japonica</i> 9371
<i>Sitona discoideus</i> 819		[Coleoptera: Scolytidae] <i>Hypothenemus hampei</i> 5876 5877 5880 5882 6188 6190
[Coleoptera: Scarabaeidae] Unknown species 683	Mucor circinelloides	[Coleoptera: Tenebrionidae] <i>Tenebrio molitor</i> 8918 8919 8920 8921 8922
<i>Melolontha melolontha</i> 977	[Coleoptera: Cerambycidae] <i>Anoplophora glabripennis</i> 6470	
<i>Papuana woodlarkiana</i> 4604		
Metarhizium lepidiota	Ophiocordyceps aphodii	Scopulariopsis sp.
[Coleoptera: Scarabaeidae] <i>Dermolepida albohirtum</i> 7488	[Coleoptera: Scarabaeidae] <i>Aphodius howitti</i> 5498	[Coleoptera: Cerambycidae] <i>Anoplophora glabripennis</i> 8421
<i>Lepidiota consobrina</i> 7412		[Coleoptera: Chrysomelidae] <i>Leptinotarsa decemlineata</i> 2327
Metarhizium majus	Paecilomyces sp.	[Coleoptera: Curculionidae] Unknown species 2169
[Coleoptera: Scarabaeidae] Unknown species 1858 1859	[Coleoptera: Curculionidae] Unknown species 5184 5193	Simplicillium lamellicola
<i>Anoplognathus</i> 4566 4601 7505		[Coleoptera: Carabidae] <i>Carabus</i> 9479
<i>Oryctes</i> 1914	Paecilomyces canadensis	Sorosporella uvella
<i>Oryctes rhinoceros</i> 978 1946	[Coleoptera: Scarabaeidae] <i>Heptophylla picea</i> 984	[Coleoptera: Curculionidae] <i>Curculio caryae</i> 1123
Metarhizium pingshaense	Pandora blunckii	Sporothrix insectorum
[Coleoptera] Unknown species 3210 4342 4610	[Coleoptera: Elateridae] <i>Athalia rosae</i> 915 917 920 1715 1716 1717 1718	[Coleoptera: Carabidae] <i>Carabus</i> 9502
[Coleoptera: Chrysomelidae] <i>Zygogramma bicolorata</i> 2231		Sterile mycelium
[Coleoptera: Curculionidae] <i>Diaprepes abbreviata</i> 5197	Penicillium sp.	[Coleoptera: Cerambycidae] Unknown species 4009
[Coleoptera: Scarabaeidae] Unknown species 2162	[Coleoptera: Curculionidae] <i>Anthonomus musculus</i> 3036 <i>Chalcodermus bimaculatus</i> 2950	[Coleoptera: Scarabaeidae] <i>Adoryphorus coulonii</i> 4243
<i>Antitrogus mussoni</i> 7417	Pochonia bulbillosa (?)	Stilbella buquetii
<i>Antitrogus parvulus</i> 7410	[Coleoptera: Curculionidae] <i>Anthonomus musculus</i> 3035	[Coleoptera: Curculionidae] <i>Artipes</i> 2915
<i>Costelytra zealandica</i> 7435		Synnematium jonesii
<i>Oryctes rhinoceros</i> 538	Pochonia chlamydosporia	[Coleoptera: Hispinae] <i>Promecotheca papuana</i> 5664
<i>Scapanes australis</i> 3604	[Coleoptera: Scarabaeidae] Unknown species 3314	Tilachlidium sp.
Metarhizium robertsii	Pochonia chlamydosporia var. chlamydosporia	[Coleoptera: Chrysomelidae] Unknown species 10132
[Coleoptera: Carabidae] Unknown species 2469	[Coleoptera: Lagriidae] <i>Lagria villosa</i> 2218	[Coleoptera: Elateridae] Unknown species 2415
[Coleoptera: Cerambycidae] <i>Dectes texanus</i> 6472		Tolypocladium cylindrosporum
[Coleoptera: Chrysomelidae] <i>Cerotoma arcuata</i> 724	Polycephalomyces sp.	[Coleoptera: Elateridae] Unknown species 7456 7812
<i>Diabrotica</i> 2514	[Coleoptera] Unknown species 9496	
[Coleoptera: Curculionidae] <i>Curculio caryae</i> 2575 3608	[Coleoptera: Carabidae] Unknown species 9497	Tolypocladium inflatum
<i>Listronotus oregonensis</i> 2981		[Coleoptera: Scarabaeidae: Aphodiinae] Unknown species 4877 4878 4879 4880 4881 4882 4883 4884 4885 4886
<i>Otiorhynchus sulcatus</i> 1910	Polycephalomyces formosus	4887 4888 4889 4890 4891 4892
[Coleoptera: Elateridae] <i>Conoderus</i> 23 1897	[Coleoptera: Carabidae] <i>Calosoma</i> 1424	4893 4894 4895 4896 4897 4898
[Coleoptera: Scarabaeidae] <i>Ancognatha scarabaeoides</i> 797		
<i>Heteronychus arator</i> 7424		
<i>Heteronyx</i> 7449		
<i>Phyllophaga ?anxia</i> 2134		
<i>Popillia japonica</i> 1046 1298 1878 3721		
5149		

Verticillium sp.

- [Coleoptera: Carabidae]
Unknown species 6501
- [Coleoptera: Dermestidae]
Unknown species 6484
- [Coleoptera: Scarabaeidae]
Unknown species 6486

Verticillium insectorum

- [Coleoptera: Curculionidae]
Otiorrhynchus sulcatus 3715

Verticillium lecanii

- [Coleoptera: Cantharidae]
Unknown species 4048
- [Coleoptera: Chrysomelidae]
Agelastica alni 4022
- [Coleoptera: Curculionidae]
Otiorrhynchus sulcatus 6545
- [Coleoptera: Histeridae]
Carcinops pumilio 5856
- [Coleoptera: Scarabaeidae]
Aphodius fimetarius 4047
- [Coleoptera: Tenebrionidae]
Unknown species 6487
- Alphitobius diaperinus* 5849

Zoophthora anglica

- [Coleoptera: Carabidae]
Trechus quadristriatus 1739
- [Coleoptera: Elateridae]
Agriotes sputator 396 2505

Zoophthora phytonomi

- [Coleoptera: Curculionidae]
Hypera postica 3342 3343 3344
- Hypera punctata* 202 2188
- Hypera variabilis* 113 191 192

Unidentified / Hyphomycetes

- [Coleoptera]
Unknown species 8641
- [Coleoptera: Buprestidae]
Agrilus planipennis 8155 8179 8183
8184
- [Coleoptera: Coccinellidae]
Unknown species 5677
- [Coleoptera: Curculionidae]
Unknown species 2225 5695
- [Coleoptera: Scarabaeidae]
Popillia japonica 5223 5224 5225 5226
5227
- Rhizotrogus majalis* 2999

Unidentified sp.

- [Coleoptera]
Unknown species 1634
- [Coleoptera: Chrysomelidae]
Leptinotarsa decemlineata 3724
- Oulema melanopus* 3980
- Phyllotreta nigripes* 4037
- [Coleoptera: Coccinellidae]
Hippodamia convergens 3821
- [Coleoptera: Curculionidae]
Aracanthus 3478
- Sternechus subsignatus* 3471
- [Coleoptera: Scarabaeidae]
Aphodius tasmaniae 4140
- Popillia japonica* 3714 3719 3722 3841

Animalia

Arthropoda • Insecta

Coleoptera

Solomon Islands	
	<i>Metarhizium anisopliae</i> sensu lato
	4290 4333 4334 4335 4336 4337
	4338 4339 4340 4341 4557 4558
	4572 4582
	<i>Metarhizium pingshaense</i> 4342
	4610
Argentina	
	<i>Beauveria bassiana</i> 7470
Belarus	
	<i>Isaria</i> sp. 9519
Brazil, Goiás	
	<i>Beauveria bassiana</i> 754
Brazil, Pará	
	<i>Beauveria caledonica</i> 2251
Canada, British Columbia	
	<i>Beauveria bassiana</i> 7972
Ethiopia	
	<i>Beauveria bassiana</i> 6692 6693 6695
	6696 6697
France	
	<i>Beauveria bassiana</i> 1980
	Unidentified sp. 1634
Ghana	
	Unidentified / Hyphomycetes 8641
India	
	<i>Beauveria brongniartii</i> 2660
	<i>Metarhizium pingshaense</i> 3210
Location not specified	
	<i>Beauveria bassiana</i> 293 4382
Mexico	
	<i>Lecanicillium</i> sp. 2(?) 2832
Philippines	
	<i>Beauveria bassiana</i> 3197 3198 3199
	<i>Isaria farinosa</i> 2355
Poland	
	<i>Beauveria bassiana</i> 301
PR China	
	<i>Beauveria bassiana</i> 7164
	<i>Isaria catenulata</i> 6244
	<i>Isaria fumosorosea</i> 9602
Republic of Korea	
	<i>Beauveria</i> sp. 5697
	<i>Isaria fumosorosea</i> 5694
Russian Federation	
	<i>Beauveria bassiana</i> 9444
	<i>Polycephalomyces</i> sp. 9496
Turkey	
	<i>Beauveria bassiana</i> 5668 10347
	<i>Beauveria</i> sp. 5831
Ukraine	
	<i>Beauveria</i> sp. 7595
	<i>Isaria farinosa</i> 9516
United Kingdom	
	<i>Beauveria bassiana</i> 6559 6560
USA, Florida	
	<i>Beauveria bassiana</i> 5979

USA, New York

Beauveria bassiana 350

USA, Texas

Isaria javanica 7119

Haphochelus marginalis

France

Metarhizium anisopliae sensu lato
3148

Coleoptera: Anthicidae

Anthicus floralis

Poland

Beauveria bassiana 157

Coleoptera: Anthribidae

Araecerus fasciculatus

USA, Florida

Beauveria bassiana 413

Coleoptera: Bruchidae

Brazil, Goiás

Metarhizium anisopliae sensu lato
932

Brazil, Mato Grosso

Metarhizium anisopliae sensu lato
954

Caryedon serratus

France

Beauveria bassiana 1186

Coleoptera: Buprestidae

Kyrgyz Republic

Beauveria bassiana 6499

Agrilus planipennis

USA, Michigan

Beauveria bassiana 8771 8772 8773
8774

Beauveria sp. 8110 8111 8112 8113

8116 8117 8119 8120 8121 8122

8123 8124 8125 8126 8127 8128

8129 8130 8132 8133 8134 8135

8136 8137 8138 8139 8140 8141

8143 8144 8145 8146 8147 8148

8149 8150 8151 8152 8153 8154

8156 8158 8159 8160 8161 8164

8166 8167 8168 8169 8170 8171

8172 8173 8174 8175 8176 8177

8178 8180 8181 8182 8185 8186

8187 8188 8131

Isaria farinosa 9944 9945

Isaria fumosorosea 8142

Lecanicillium lecanii 8115

Lecanicillium muscarium 8114 8118

8157 8163 8165

Lecanicillium muscarium(?) 8162

Unidentified / Hyphomycetes 8155

8179 8183 8184

Coleoptera: Cantharidae

Denmark

Batkoaa sp. 5810 2664

Verticillium lecanii 4048

USA, New York

Erynia sp. 5352

Rhagonycha fulva

Denmark

Erynia sp. 2525 2536 2537 2538

2539 2553 2663

Coleoptera: Carabidae

Belarus

Polycephalomyces sp. 9497

Brazil, Goiás

Metarhizium anisopliae sensu lato
939

Brazil, Mato Grosso

Beauveria bassiana 952

Brazil, Pará

Metarhizium anisopliae sensu lato
1901

Ethiopia

Beauveria bassiana 6689

France

Beauveria bassiana 1975

Kazakhstan

Verticillium sp. 6501

Mexico

Metarhizium robertsii 2469

Republic of Korea

Beauveria bassiana 7241 7270

Beauveria brongniartii 7268

Russian Federation

Beauveria bassiana 7581

USA, Washington

Beauveria bassiana 3386

Uzbekistan

Beauveria bassiana 6059 6099

Agonum dorsale

Denmark

Isaria farinosa 4029 4044

Amara familiaris

Denmark

Beauveria bassiana 4034

Amara plebeja

Denmark

Beauveria bassiana 4031

Bembidion lampros

Denmark

Beauveria bassiana 4032

Isaria farinosa 4043

Calosoma sp.

Poland

Polycephalomyces formosus 1424

Carabus sp.

Russian Federation

Sporothrix insectorum 9502

Ukraine

Simplicillium lamellicola 9479

Hapalus sp.

Denmark

Isaria farinosa 4045

Trechus quadrifasciatus

United Kingdom

Zoophthora anglica 1739

Coleoptera: Cerambycidae

Brazil, Ceará

Beauveria bassiana 785

Denmark

Sterile mycelium 4009

Ecuador

Beauveria bassiana 2557

France

Beauveria bassiana 5072

Isaria farinosa 5073 5074 5075 5080

Japan
Harposporium janus 5601

Mexico
Beauveria bassiana 319

Republic of Korea
Beauveria bassiana 6721 7251 7261
 7266 7275
Isaria farinosa 7276

Russian Federation
Beauveria bassiana 9442

USA, Rhode Island
Beauveria bassiana 318

Agricame spinicollis

Australia
Metarhizium anisopliae sensu lato
 7498 7499 7500

Anoplophora glabripennis

PR China
Beauveria amorpha(?) 6827
Beauveria bassiana 6387 6390 7155
 7156 7157 7166 7167 7168 7169
 7170 7171 7172 7173 7174 7175
 7176 7177 7178 8414
Metarhizium anisopliae sensu lato
 8420
Scopulariopsis sp. 8421

USA, Connecticut
Beauveria bassiana 6393
Metarhizium anisopliae sensu lato
 6388 7234 8415 8416 8417 8418
 8419
Metarhizium brunneum 6392

USA, Illinois
Beauveria bassiana 7152 7153 7154
Metarhizium anisopliae sensu lato
 7180

USA, Massachusetts
Metarhizium anisopliae sensu lato
 6389

USA, Michigan
Aspergillus flavus 6469
Mucor circinelloides 6470

USA, New York
Beauveria bassiana 6391 7158 7159
 7179 8412 8413
Isaria farinosa 8411

Anoplophora malasiaca

Japan
Beauveria brongniartii 6235 6412

Aromia moschata

Italy
Beauveria bassiana 1559 1560 1561
 1562 1563

Dectes texanus

USA, Kansas
Beauveria bassiana 6471
Metarhizium robertsii 6472

Enaphalodes rufulus

USA, Arkansas
Beauveria bassiana 7404

Moecotypa diphysis

Japan
Beauveria bassiana 1678

Monochamus alternatus

Japan
Beauveria bassiana 1679

Monochamus scutellatus

USA, Michigan
Beauveria bassiana 7162 7163

Niphonoclea sp.

Philippines
Beauveria brongniartii 1431

Ortholeptura validula

USA, Oregon
Beauveria bassiana 5997

Phoracantha semipunctata

Malawi
Beauveria malawiensis 7760

Plectrodera scalator

USA, Michigan
Beauveria bassiana 7160 7161 7165
Lecanicillium lecanii 7181 7182

Psacothea hilaris

Japan
Beauveria amorpha 1680
Beauveria bassiana 1041

Coleoptera: Chrysomelidae

Australia
Beauveria bassiana 8835 8836
Isaria fumosorosea 8840

Brazil, Goiás
Beauveria bassiana 1971

Kazakhstan
Isaria farinosa 6491

Mexico
Beauveria bassiana(?) 6890 6891

Nepal
Cordyceps scarabaeicola 7277 7278

Republic of Kazakhstan
Beauveria bassiana 10350

Republic of Korea
Beauveria bassiana 7244 7247 7271
 7272
Beauveria sungii 7279 7280

USA, Florida
Tilachlidium sp. 10132

Vietnam
Beauveria bassiana 751

Yugoslavia, Serbia
Beauveria bassiana 504

Agelastica alni

Denmark
Verticillium lecanii 4022

Republic of Georgia
Evlachovaea kintrischchiae 7218 8058

Basilepta fulvicornis

India
Beauveria sp. 8250

Brontispa longissima

Australia
Metarhizium anisopliae sensu lato
 8745 8746 8747

Western Samoa
Metarhizium anisopliae sensu
 stricto 2223

Cerotoma sp.

Brazil, Mato Grosso
Beauveria bassiana 951

Brazil, Paraná
Beauveria bassiana 1458

Brazil, Rio de Janeiro
Purpureocillium lilacinum 1951

Brazil, Santa Catarina
Beauveria bassiana 1467

Cerotoma arcuata

Brazil, Amazonas
Beauveria bassiana 731 732 756

Brazil, Bahia
Beauveria bassiana 2075

Brazil, Goiás
Beauveria bassiana 931 934
Metarhizium anisopliae sensu lato
 760 2076 2077 2635 2941
Metarhizium robertsii 724

Crimissa sp.

Brazil, Ceará
Beauveria bassiana 786 788 805

Crimissa cruralis

Brazil, Ceará
Beauveria bassiana 4001

Diabrotica sp.

Brazil
Beauveria bassiana 3219

Brazil, Amazonas
Beauveria bassiana 2512

Brazil, Goiás
Beauveria bassiana 956 2938 2942
Metarhizium anisopliae sensu lato
 1885 2513
Metarhizium robertsii 2514

Brazil, Mato Grosso
Beauveria bassiana 946 947 948 949
 950 982

Colombia
Beauveria bassiana 721

Mexico
Beauveria bassiana 3287

Diabrotica balteata

Mexico
Beauveria bassiana 3309

Diabrotica barberi

USA, South Dakota
Beauveria bassiana 2579

Diabrotica paranaensis

Brazil, Goiás
Beauveria bassiana 739 752 758 809

Brazil, Mato Grosso
Beauveria bassiana 937 938

Diabrotica speciosa

Argentina
Beauveria bassiana 2515 8373

Brazil, Alagoas
Beauveria bassiana 1954

Brazil, Bahia
Beauveria bassiana 1961
Metarhizium anisopliae sensu lato
 1958

Brazil, Goiás
Beauveria bassiana 928 1476 2625
 2626

Brazil, Paraná
Beauveria bassiana 958 1060 1453
 1454 1455 1461 1462 1463 1466
 1469 2511 2520

Metarhizium anisopliae sensu lato
 1056

Fungus by Host and Location

Coleoptera: Chrysomelidae
Coleoptera: Curculionidae

Brazil, Rio Grande do Sul <i>Beauveria bassiana</i> 1456 1459 1460 1464 1465 1475	Yugoslavia, Croatia <i>Beauveria bassiana</i> 509	Uzbekistan <i>Beauveria bassiana</i> 6055 6061 6062 6063 6074 6075 6092 6095 6111 6112
Brazil, Santa Catarina <i>Beauveria bassiana</i> 1470 1471 1472 1473	<i>Lilioceris lili</i> <i>Beauveria bassiana</i> 5195	<i>Coccinella</i> sp. USA, New York <i>Beauveria bassiana</i> 2033 2034
<i>Diabrotica undecimpunctata</i> USA, Oregon <i>Beauveria bassiana</i> 201	<i>Maecolaspis monrosi</i> Argentina <i>Beauveria bassiana</i> 2509	<i>Coccinella septempunctata</i> Denmark <i>Beauveria bassiana</i> 4018 <i>Beauveria</i> sp. 4027
<i>Diabrotica virgifera</i> Mexico <i>Beauveria bassiana</i> 2330	<i>Notonata</i> sp. Costa Rica <i>Beauveria bassiana</i> 3437 3438 3439 3441 3442 3444 3446 3447 3450 3451 3452 3455	Location not specified <i>Beauveria bassiana</i> 3534
<i>Diabrotica virgifera virgifera</i> Mexico <i>Beauveria bassiana</i> 9297 9298 9299 9300 9301 9302	<i>Odontota dorsalis</i> <i>Beauveria bassiana</i> 5553	Ukraine <i>Isaria fumosorosea</i> 9521 USA, Michigan <i>Beauveria bassiana</i> 2580
<i>Galerucella</i> sp. USA, Texas <i>Beauveria bassiana</i> 5465	<i>Oulema melanopus</i> France Unidentified sp. 3980	<i>Coleomegilla maculata</i> Brazil, Alagoas <i>Beauveria bassiana</i> 1956
<i>Galerucina</i> sp. France <i>Beauveria bassiana</i> 2463	<i>Pachybrachis pallicornis</i> Malaysia <i>Beauveria</i> sp. 547	Brazil, Goiás <i>Metarhizium anisopliae</i> sensu lato 808
<i>Leptinotarsa decemlineata</i> Canada, Ontario <i>Beauveria bassiana</i> 5807	<i>Paropsis charybdis</i> New Zealand <i>Beauveria bassiana</i> 3066	<i>Cycloneda sanguinea</i> Argentina <i>Beauveria bassiana</i> 2010 8372 8462 8463
Canada, Québec <i>Beauveria bassiana</i> 2987 2988 2989 2990 2991	<i>Phyllotreta nigripes</i> Denmark Unidentified sp. 4037	<i>Hippodamia convergens</i> Mexico Unidentified sp. 3821
Commonwealth of Independent States <i>Beauveria bassiana</i> 2695	<i>Pyrrhalta fuscipennis</i> Japan <i>Mixed Culture</i> sp. 1043	USA, New York <i>Beauveria bassiana</i> 4973 4974 4975
France <i>Beauveria bassiana</i> 149 384 1982 <i>Scopulariopsis</i> sp. 2327	<i>Pyrrhalta luteola</i> France <i>Beauveria bassiana</i> 1509 1510 1511 1518 1519	Coleoptera: Cucujidae: Silvaninae
Germany <i>Beauveria bassiana</i> 340	<i>Isaria farinosa</i> 1507 1508	<i>Ahasverus advena</i> Denmark <i>Beauveria bassiana</i> 5857
Italy <i>Beauveria bassiana</i> 1106	<i>Isaria fumosorosea</i> 1506	
Location not specified <i>Beauveria bassiana</i> 5286 Unidentified sp. 3724	<i>Lecanicillium lecanii</i> 1505	Coleoptera: Curculionidae
Russian Federation <i>Beauveria bassiana</i> 9441	<i>Pyrrhalta viburni</i> Russian Federation <i>Beauveria bassiana</i> 9449	Canada, British Columbia <i>Beauveria bassiana</i> 7978
USA, Maine <i>Beauveria bassiana</i> 252 353	<i>Spaethiella</i> sp. Brazil, Amazonas <i>Isaria fumosorosea</i> 2956	Indonesia <i>Metarhizium brunneum</i> 2224
USA, Maryland <i>Beauveria bassiana</i> 8998	<i>Systema</i> sp. Brazil, Goiás <i>Beauveria bassiana</i> 2079	United Kingdom <i>Beauveria bassiana</i> 7769
USA, Michigan <i>Aspergilus</i> sp. 6571 <i>Beauveria bassiana</i> 5813	<i>Xanthogaleruca luteola</i> Argentina <i>Beauveria bassiana</i> 5501	USA, New York <i>Beauveria bassiana</i> 3667
USA, New York <i>Beauveria bassiana</i> 534 535 1039 1081 1619 1620 1621 1622 1623 1624 1704 1705 1706 1707 1708 1709 1710 1711 1712 1713 1721 1722 1723 1749 1750 1775 1776 1777 1778 1779 1780 1781 2030 2031 2032 5533 5534 5535 5536 5537 6986 6987 6988	<i>Zygogramma bicolorata</i> India <i>Metarhizium pingshaense</i> 2231	<i>Metarhizium anisopliae</i> sensu lato 8098 8099
USA, Rhode Island <i>Beauveria bassiana</i> 317	Coleoptera: Chrysomelidae: Hispinae <i>Beauveria bassiana</i> 8494	Argentina <i>Beauveria bassiana</i> 7202 7466 7471 8520 8521 8522 8523 8524 8525 8526 8530
USA, Washington <i>Beauveria bassiana</i> 344 1079	Coleoptera: Coccinellidae	<i>Beauveria</i> sp. 7463
Yugoslavia <i>Beauveria bassiana</i> 505 506 507 510	Republic of Korea <i>Beauveria</i> sp. 4853	Brazil, Goiás <i>Beauveria bassiana</i> 930
	Russian Federation <i>Beauveria</i> sp. 7591	Brazil, Paraná <i>Beauveria bassiana</i> 1061
	Turkey <i>Beauveria</i> sp. 5678 5833	Denmark <i>Beauveria bassiana</i> 4052
	<i>Isaria farinosa</i> 5754 5834	Indonesia, Sulawesi Selatan, Celebes <i>Aspergillus parasiticus</i> 2173
	Unidentified / <i>Hyphomycetes</i> 5677	<i>Metarhizium brunneum</i> 2210 Unidentified / <i>Hyphomycetes</i> 2225
		Papua New Guinea <i>Scopulariopsis</i> sp. 2169

PR China	<i>Metarhizium anisopliae</i> sensu lato 725 929	<i>Beauveria</i> sp. 1327
<i>Isaria catenianulata</i> 6241		<i>Lecanicillium muscarium</i> 1328 1401
Republic of Korea		1402 1403
<i>Beauveria bassiana</i> 2040		USA, Illinois
<i>Lecanicillium muscarium</i> 7248		<i>Zoophthora phytonomi</i> 3342 3343
Unidentified / Hyphomycetes 5695		3344
USA, Hawaii		<i>Hypera punctata</i>
<i>Beauveria bassiana</i> 8705		USA, Delaware
USA, New York		<i>Zoophthora phytonomi</i> 2188
<i>Beauveria bassiana</i> 6216 6217		USA, New York
<i>Beauveria brongniartii</i> 6213 6214		<i>Zoophthora phytonomi</i> 202
6215		
USA, Vermont		<i>Hypera variabilis</i>
<i>Paecilomyces</i> sp. 5184 5193		Israel
<i>Anthonomus grandis</i>		<i>Conidiobolus osmodes</i> 79
Brazil		<i>Conidiobolus</i> sp. 80 81
<i>Beauveria</i> sp. 1835		<i>Zoophthora phytonomi</i> 113 191 192
Brazil, São Paulo		
<i>Beauveria bassiana</i> 1966 2559 2638		<i>Larinus</i> sp.
2639 2945 2946		Switzerland
USA, Texas		<i>Beauveria varroae</i> 2694
<i>Aspergillus</i> sp. 7048		<i>Listronotus maculicollis</i>
<i>Beauveria bassiana</i> 3097 7795		USA, New York
<i>Anthonomus musculus</i>		<i>Metarhizium anisopliae</i> sensu lato
USA, Massachusetts		9374
<i>Beauveria bassiana</i> 3037		<i>Listronotus oregonensis</i>
<i>Penicillium</i> sp. 3036		Canada, Québec
<i>Pochonia bulbillosa</i> (?) 3035		<i>Beauveria bassiana</i> 2983 2984 2985
USA, New Jersey		2986
<i>Fusarium</i> sp. 3030 3031 3032		<i>Metarhizium robertsii</i> 2981
<i>Apion</i> sp.		<i>Litodactylus leucogaster</i>
Denmark		USA, Florida
<i>Beauveria bassiana</i> 4023		<i>Isaria javanica</i> 322
<i>Aracanthus</i> sp.		<i>Metamasius</i> sp.
Brazil, Ceará		Colombia
<i>Beauveria bassiana</i> 753		<i>Beauveria bassiana</i> 842
Brazil, Rio Grande do Sul		<i>Metamasius callizona</i>
Unidentified sp. 3478		USA, Florida
<i>Artipes</i> sp.		<i>Beauveria bassiana</i> 5986
USA, Florida		<i>Metamasius hemipterus</i>
<i>Stilbella buquetii</i> 2915		Brazil, Paraná
<i>Blosyrus asellus</i>		<i>Beauveria bassiana</i> 2642
USA, Hawaii		<i>Myllocerus discolor</i>
<i>Metarhizium anisopliae</i> sensu lato		India
9217 9218		<i>Metarhizium guizhouense</i> 3603
<i>Brachyderes incanus</i>		<i>Oryzaphagus oryzae</i>
Netherlands		Brazil, Rio Grande do Sul
<i>Hirsutella fusiformis</i> 5474		<i>Beauveria bassiana</i> 3098
<i>PR China</i>		<i>Otiorhynchus ligustici</i>
<i>Isaria catenianulata</i> 6243		Hungary
<i>Ceutorhynchus litura</i>		<i>Beauveria bassiana</i> 6884 6885
Location not specified		USA, New York
<i>Beauveria bassiana</i> 3403		<i>Fusarium</i> sp. 4825
<i>Ceutorhynchus napi</i>		<i>Metarhizium anisopliae</i> sensu lato
Switzerland		4819 4820 4821 4822 4823 4824
<i>Conidiobolus coronatus</i> 1572 1573		<i>Otiorhynchus sulcatus</i>
1574 1575		Australia
<i>Chalcodermus</i> sp.		<i>Metarhizium brunneum</i> 4228
Brazil, Mato Grosso		France
<i>Beauveria bassiana</i> 941 942 943		<i>Beauveria bassiana</i> 813 814 815
953		1073 1074 1075
<i>Chalcodermus aeneus</i>		<i>Metarhizium anisopliae</i> sensu lato
Brazil, Goiás		818
<i>Beauveria bassiana</i> 733 734 735 736		<i>Metarhizium brunneum</i> 817 820
738		<i>Metarhizium flavoviride</i> 2024
		<i>Metarhizium flavoviride</i> var.
		<i>flavoviride</i> 1184

Fungus by Host and Location

Coleoptera: Curculionidae
Coleoptera: Lagriidae

Germany	1311 1312 1313 1811 1815 1816	<i>Agriotes</i> sp.
<i>Metarhizium brunneum</i> 5198	1817 1818 1819 1820 1821	Germany
<i>Metarhizium robertsii</i> 1910	<i>Fusarium</i> sp. 1310	<i>Evlachovaea</i> sp. 7403
Location not specified	<i>Sitona humeralis</i>	Switzerland
<i>Verticillium insectorum</i> 3715	France	<i>Metarhizium anisopliae</i> sensu lato
New Zealand	<i>Beauveria bassiana</i> 1491	7524
<i>Beauveria bassiana</i> 3065 8078	<i>Sitona lineatus</i>	United Kingdom
United Kingdom	Denmark	<i>Metarhizium anisopliae</i> sensu lato
<i>Beauveria bassiana</i> 6552 7763	<i>Beauveria bassiana</i> 4013 4015 4016	6551
<i>Metarhizium anisopliae</i> sensu lato	4019 4021 4041	USA, Oregon
6549	<i>Isaria farinosa</i> 4039	<i>Metarhizium anisopliae</i> sensu lato
<i>Metarhizium anisopliae</i> sensu	<i>Lecanicillium muscarium</i> 4033	7494
stricto 6546	<i>Metarhizium brunneum</i> 4020	<i>Metarhizium brunneum</i> 2107
<i>Verticillium lecanii</i> 6545	France	<i>Agriotes sputator</i>
USA, Oregon	<i>Beauveria bassiana</i> 1156 1157 1158	Denmark
<i>Isaria farinosa</i> 2937	1159 1160 1161 1162 1165 1167	<i>Zoophthora anglica</i> 2505
<i>Phlyctinus callosus</i>	1168 1169 1170 1182 1192 1193	Switzerland
Australia	1194 1306	<i>Metarhizium anisopliae</i> sensu lato
<i>Beauveria bassiana</i> 8756 8757	<i>Sitophilus</i> sp.	1377
<i>Pissodes strobi</i>	United Kingdom	<i>Zoophthora anglica</i> 396
Canada, British Columbia	<i>Beauveria bassiana</i> 7764 7773 7774	<i>Athalia rosae</i>
<i>Lecanicillium muscarium</i> 8048 8049	<i>Sitophilus oryzae</i>	Switzerland
8050 8051 8052 8053 8054	Republic of Korea	<i>Pandora blunckii</i> 915 917 920 1715
<i>Lecanicillium pissodis</i> 8055 8056	<i>Cordyceps</i> sp. 4852	1716 1717 1718
8057	<i>Sternechus subsignatus</i>	<i>Conoderus</i> sp.
<i>Premnотryes latithorax</i>	Brazil, Paraná	New Zealand
Peru	<i>Beauveria bassiana</i> 1450	<i>Metarhizium anisopliae</i> sensu
<i>Beauveria bassiana</i> 5983 5984	<i>Metarhizium anisopliae</i> sensu lato	stricto 2518
<i>Premnотryes suturicallus</i>	1989	USA
Peru	Brazil, Rio Grande do Sul	<i>Metarhizium anisopliae</i> sensu lato
<i>Beauveria amorpha</i> 1969	Unidentified sp. 3471	1903
<i>Premnотryes vorax</i>	Coleoptera: Curculionidae: Apioninae	USA, California
Colombia	<i>Cylas formicarius elegantulus</i>	<i>Metarhizium robertsii</i> 1897
<i>Beauveria bassiana</i> 2248	Peru	USA, North Carolina
<i>Isaria farinosa</i> 799	<i>Beauveria bassiana</i> 5982	<i>Metarhizium robertsii</i> 23
<i>Rhabdoscelus obscurus</i>	USA, Florida	<i>Limonius canus</i>
Australia	<i>Beauveria bassiana</i> 5981	USA, Washington
<i>Metarhizium anisopliae</i> sensu lato	Coleoptera: Dermestidae	<i>Metarhizium anisopliae</i> sensu lato
8762 8828 8847	Kazakhstan	7000 7001 7002 7003 7004 7005
<i>Rhynchites aequatus</i>	<i>Verticillium</i> sp. 6484	7006 7007 7008 7009
Denmark	Coleoptera: Elateridae	Coleoptera: Hispinae
<i>Beauveria bassiana</i> 8037	Australia	<i>Promecotheca papuana</i>
<i>Rhynchites baccus</i>	<i>Metarhizium anisopliae</i> sensu lato	Papua New Guinea
Turkey	8543 8544 8545 8546 8547 8548	<i>Synnematum jonesii</i> 5664
<i>Beauveria bassiana</i> 8668	Belarus	Coleoptera: Histeridae
<i>Rhynchophorus ferrugineus</i>	<i>Purpureocillium lilacinum</i> 9524	<i>Carcinops pumilio</i>
Iran	<i>Lecanicillium fungicola</i> 9483	Denmark
<i>Beauveria bassiana</i> 6903	Brazil, Ceará	<i>Verticillium lecanii</i> 5856
<i>Shirahoshizo insidiosus</i>	<i>Beauveria bassiana</i> 784 804	Coleoptera: Lagriidae
Japan	Canada, British Columbia	<i>Lagria vilosa</i>
<i>Beauveria</i> sp. 1681	<i>Tolypocladium cylindrosporum</i>	Brazil
<i>Sitona</i> sp.	7456	<i>Isaria amoenerosea</i> 4097
France	France	Brazil, Alagoas
<i>Beauveria bassiana</i> 1647	<i>Beauveria bassiana</i> 150	<i>Isaria farinosa</i> 1957
New Zealand	Japan	Brazil, Goiás
<i>Beauveria bassiana</i> 3063 8077	<i>Tilachlidium</i> sp. 2415	<i>Beauveria bassiana</i> 2961
<i>Sitona discoideus</i>	Russian Federation	<i>Isaria amoenerosea</i> 741 744 2220
France	<i>Beauveria brongniartii</i> 9452	2958 2959 2960
<i>Beauveria bassiana</i> 816 1185 1191	<i>Beauveria</i> sp. 7580	<i>Isaria fumosorosea</i> 722 2216 2217
<i>Metarhizium guizhouense</i> 819	<i>Tolypocladium cylindrosporum</i>	2219 2221
Morocco	7812	<i>Purpureocillium lilacinum</i> 723 2952
<i>Beauveria bassiana</i> 1153 1154 1155	Turkey	<i>Pochonia chlamydosporia</i> var.
1163 1164 1171 1172 1173 1174	<i>Beauveria bassiana</i> 5670	<i>chlamydosporia</i> 2218
1175 1176 1177 1178 1179 1180		
1181 1183 1188 1189 1190 1309		

Coleoptera: Lampyridae

Russian Federation
Isaria coleopterorum 9509
Lecanicillium nr. *aranearum* 9460
 USA, Vermont
Beauveria sp. 5186 5188
Cratomorphus diaphanus
 Argentina
Beauveria bassiana 8464

Coleoptera: Languriidae

Costa Rica
Beauveria bassiana 3457

Coleoptera: Meloidae

Republic of Korea
Isaria amoenerosea 4849

Coleoptera: Melyridae

Malachius bipustulatus
 Poland
Lecanicillium muscarium 1335

Coleoptera: Nitidulidae

Australia
Beauveria bassiana 325

Coleoptera: Pythidae

Pytho sp.
 Canada, British Columbia
Beauveria bassiana 1854

Coleoptera: Rhizophagidae

Rhizophagus grandis
 Belgium
Beauveria bassiana 1848

Coleoptera: Scarabaeidae

Australia
Metarhizium brunneum 472
 Brazil, Distrito Federal
Metarhizium anisopliae sensu lato
 3479
 Ethiopia
Beauveria bassiana 6686
 Kazakhstan
Isaria farinosa 6488 6489
 Kyrgyz Republic
Verticillium sp. 6486
 Location not specified
Beauveria brongniartii 4380 4381
 Nepal
Metarhizium anisopliae sensu lato
 7527 7529
 Papua New Guinea
Metarhizium anisopliae sensu lato
 2163
Metarhizium pingshaense 2162
 Poland
Metarhizium majus 1858 1859
 PR China
Metarhizium guizhouense 683
 Republic of Korea
Beauveria bassiana 7264
Beauveria sunqii 5689
 Russian Federation
Clonostachys rosea 9491
Cordyceps sp. 7848
Engyodontium rectidentatum 7805

Syria

Purpureocillium lilacinum 6110

Turkey

Beauveria bassiana 5669

USA, Vermont

Pochonia chlamydosporia 3314

Uzbekistan

Beauveria bassiana 6058

Adoryphorus sp.

Australia

Metarhizium frigidum 4124

Adoryphorus coulonii

Metarhizium anisopliae sensu lato
 4142 4239

Australia

Beauveria amorpha 4149

Beauveria bassiana 4135 4136 4274
 4721

Metarhizium anisopliae sensu lato
 4137 4138 4141 4346 4677 4716
 4722 7815

Metarhizium flavoviride var.
flavoviride 4719 4720

Sterile mycelium 4243

Amphimallon majale

USA, New York

Metarhizium anisopliae sensu lato
 9373

Amphimallon solstitialis

Denmark

Beauveria caledonica 8024

Ancognatha scarabaeoides

Colombia

Beauveria bassiana 2249 2250
Metarhizium robertsii 797

Anomala costata

Japan

Beauveria amorpha 1676
Beauveria brongniartii 985

Anomala cuprea

Cordyceps brongniartii 7517

Japan

Beauveria bassiana 1683

Beauveria sp. 1682

Cordyceps brongniartii 7516

Anomola sp.

Myanmar

Metarhizium anisopliae sensu lato
 8738 8739 8740 8741 8742 8743

Anoplognathus sp.

Australia

Beauveria bassiana 8763

Metarhizium anisopliae sensu lato
 8764

Metarhizium majus 4566 4601 7505

Anoplognathus hirsutus

Australia

Metarhizium anisopliae sensu lato
 4574 4779

Antitrogus consanguineus

Australia

Metarhizium anisopliae sensu lato
 8761

Antitrogus mussoni

Australia

Metarhizium anisopliae sensu lato
 7842 7865 7931

Metarhizium pingshaense 7417

Antitrogus parvulus

Metarhizium anisopliae sensu lato
 8832 8893

Australia

Metarhizium anisopliae sensu lato
 7496 7819 7839 7854 7864 8833
 8834

Metarhizium pingshaense 7410

Aphodius fimetarius

Denmark

Verticillium lecanii 4047

Aphodius howitti

Location not specified

Ophiocordyceps aphodii 5498

Aphodius tasmaniæ

Australia

Metarhizium anisopliae sensu lato
 4125 4132 4133 4139 7845
Metarhizium brunneum 346 4131
 Unidentified sp. 4140

New Zealand

Beauveria bassiana 3070 8079

Costelytra zealandica

Netherlands

Beauveria brongniartii 7761

New Zealand

Beauveria bassiana 3055

Beauveria brongniartii 3054

Metarhizium anisopliae sensu lato
 3056 3057
Metarhizium pingshaense 7435

Cyclocephala sp.

Australia

Metarhizium anisopliae sensu lato
 8837 8838

Dasygnathus dejani

Australia

Metarhizium anisopliae sensu lato
 8839

Dermolepidia albohirtum

Metarhizium anisopliae sensu lato
 7492

Metarhizium sp. 7493

Australia

Metarhizium anisopliae var. *lepidiotae* 7453
Metarhizium anisopliae sensu lato
 7452 8744 8754 8755 10469

Metarhizium lepidiotae 7488

Diloboderus abderus

Argentina

Metarhizium brunneum 6120

Heptophylla picea

Japan

Paecilomyces canadensis 984

Heteronychus arator

Australia

Metarhizium anisopliae sensu lato
 7932 7933 7934 7935 7936 8549
 8550 8551 8552 8553 8554 8555
 8556 8557 8576 8848 8849

Fungus by Host and Location

Coleoptera: Scarabaeidae

<i>Metarhizium robertsii</i> 7424	<i>Melolontha</i> sp.	<i>Phyllophaga anxia</i>
<i>Heteronyx</i> sp.	Germany	Canada
Australia	<i>Beauveria brongniartii</i> 5355 5356	<i>Metarhizium anisopliae</i> sensu lato
<i>Metarhizium anisopliae</i> sensu lato	5357 5358 5359 5360 5361 5362	8499
7843 7844 8586	5363 5364	<i>Phyllophaga cuyabana</i>
<i>Metarhizium robertsii</i> 7449		Brazil, Paraná
<i>Heteronyx piceus</i>	<i>Melolontha melolontha</i>	<i>Metarhizium anisopliae</i> sensu
Australia	France	stricto 3924
<i>Metarhizium anisopliae</i> sensu lato	<i>Beauveria brongniartii</i> 617 979	<i>Phyllophaga menetriesi</i>
7451 8500 8558 8559 8582 8583	<i>Metarhizium guizhouense</i> 977	Colombia
8592 8615 8616 8617 8618 8619	Switzerland	<i>Evlachovaea</i> sp. 7551
8620 8621	<i>Beauveria brongniartii</i> 1067 1068	<i>Popillia japonica</i>
<i>Metarhizium anisopliae</i> sensu	1069 1070 1071 1072 1076 1077	Azores
stricto 7450	7528	<i>Beauveria amorphia</i> 4990
<i>Heteronyx rugosipennis</i>	<i>Metarhizium anisopliae</i> sensu lato	<i>Beauveria brongniartii</i> 4992 4993
Australia	7532	4994 4995
<i>Metarhizium anisopliae</i> sensu lato	<i>Metarhizium brunneum</i> 1066	Japan
8563 8564 8565 8566 8567 8577		<i>Beauveria brongniartii</i> 4389 4458
8610	<i>Oryctes</i> sp.	<i>Beauveria</i> sp. 4390 4391 4392
<i>Holotrichia parallela</i>	Papua New Guinea	<i>Metarhizium robertsii</i> 1046
China	<i>Metarhizium anisopliae</i> sensu lato	Unidentified / Hyphomycetes 5223
<i>Beauveria asiatica</i> 4384 4474	2156 2165 2166 2167	5224 5225 5226 5227
<i>Beauveria brongniartii</i> 4385 4386		Location not specified
4388 4465 4466 4467 4468 4469	<i>Metarhizium majus</i> 1914	<i>Beauveria bassiana</i> 3716 3717
4470 4471 4472 4473 4475 4476	<i>Oryctes rhinoceros</i>	<i>Cordyceps</i> sp. 3718 3714 3719
4477 4478	France	
<i>Mixed Culture</i> sp. 4387	<i>Metarhizium anisopliae</i> var. <i>majus</i>	Portugal
<i>Lachnostenra bidentata</i>	3145	<i>Beauveria bassiana</i> 5148 5150
Malaysia	<i>Metarhizium majus</i> 978	<i>Isaria fumosorosea</i> 2679
<i>Metarhizium flavoviride</i> 8737	Indonesia, Jawa Barat, Java	<i>Metarhizium anisopliae</i> sensu lato
<i>Lachnostenra morosa</i>	<i>Metarhizium anisopliae</i> var. <i>majus</i>	3329 4907 4908
Japan	2151	<i>Metarhizium brunneum</i> 3864
<i>Beauveria sungii</i> 1685	Philippines	<i>Metarhizium robertsii</i> 5149
<i>Lepidiota consobrina</i>	<i>Metarhizium majus</i> 1946	Unidentified sp. 3841
<i>Metarhizium anisopliae</i> sensu lato	Thailand	USA, Connecticut
8830 8831	<i>Metarhizium pingshaense</i> 538	<i>Metarhizium anisopliae</i> sensu lato
Australia	<i>Pachnodia interrupta</i>	3713 3720
<i>Metarhizium anisopliae</i> var. <i>lepidiotae</i> 8732	Ethiopia	<i>Metarhizium robertsii</i> 3721
<i>Metarhizium anisopliae</i> sensu lato	<i>Aspergillus flavus</i> 6454	Unidentified sp. 3722
7411 7827 7828 7846 8845 8850	<i>Beauveria bassiana</i> 6669 6676 6681	USA, New York
<i>Metarhizium lepidiotae</i> 7412	<i>Metarhizium anisopliae</i> sensu lato	<i>Metarhizium anisopliae</i> sensu lato
<i>Lepidiota frenchi</i>	6670 6671 6672 6673 6674 6675	1280 2548 3330 3331 3332 3333
Australia	6677 6678 6679 6680 6682 6683	3334 3335 3336 3337 3338 3339
<i>Metarhizium anisopliae</i> sensu lato	6684 6685	3340 9372
7829 7830 7831 8733	<i>Papuana</i> sp.	<i>Metarhizium robertsii</i> 1298 1878
<i>Lepidiota gibbifrons</i>	Papua New Guinea	<i>Purpureocillium lilacinum</i> 9371
Australia	<i>Metarhizium anisopliae</i> sensu lato	<i>Rhizotrogus majalis</i>
<i>Metarhizium anisopliae</i> sensu lato	8748	USA, New York
7824 7825 7826	<i>Papuana woodlarkiana</i>	<i>Metarhizium robertsii</i> 2547 3108
<i>Lepidiota negatoria</i>	Papua New Guinea	3211 4123
Australia	<i>Metarhizium guizhouense</i> 4604	Unidentified / Hyphomycetes
<i>Metarhizium anisopliae</i> sensu lato	<i>Phyllopertha horticola</i>	2999
7832	Norway	
<i>Lepidiota noxia</i>	<i>Metarhizium anisopliae</i> sensu lato	<i>Rhopaea magnicornis</i>
Australia	6901	Australia
<i>Metarhizium anisopliae</i> sensu lato	<i>Metarhizium brunneum</i> 6477	<i>Beauveria bassiana</i> 4130 7813 8853
7504	<i>Phyllophaga</i> sp.	8854
<i>Lepidiota picticollis</i>	Mexico	<i>Isaria fumosorosea</i> 8892
<i>Metarhizium anisopliae</i> sensu lato	<i>Beauveria bassiana</i> 5740 5741 5742	<i>Metarhizium anisopliae</i> sensu lato
8501	5743 5744 5745	8492 8765 8766 8767 8829 8844
<i>Lepidiota squamulata</i>	<i>Phyllophaga ?anxia</i>	<i>Metarhizium</i> sp. 7495 8851 8852
Australia	Canada	8855 8856 8857
<i>Metarhizium anisopliae</i> sensu lato	<i>Metarhizium anisopliae</i> sensu lato	<i>Rhopaea verreauxii</i>
7816	2135 2136 2137 2138 2139	Australia
	<i>Metarhizium robertsii</i> 2134	<i>Metarhizium anisopliae</i> sensu lato
		8495

<i>Scapanes australis</i> Papua New Guinea <i>Metarhizium pingshaense</i> 3604	Canada, British Columbia <i>Beauveria bassiana</i> 1852	Coleoptera: Scolytidae (Tribe Ipini) PR China <i>Beauveria pseudobassiana</i> 6229
<i>Sericesthis micans</i> Australia <i>Metarhizium anisopliae</i> sensu lato 4568 4777 4778	<i>Hypothenemus hampei</i> Benin <i>Fusarium</i> sp. 5875 5878 <i>Purpureocillium lilacinum</i> 5876 5877 5880 5882 6188 6190	Coleoptera: Silphidae Russian Federation <i>Isaria farinosa</i> 9511 <i>Lecanicillium</i> sp. 9459
<i>Sericesthis nigrolineata</i> Australia <i>Beauveria bassiana</i> 7853 <i>Metarhizium anisopliae</i> sensu lato 4780 7814 7863	Brazil, São Paulo <i>Beauveria bassiana</i> 1480 Cameroon <i>Beauveria bassiana</i> 6526 6527 6528 6529 6530 6531 6532	Coleoptera: Staphylinidae Australia <i>Metarhizium anisopliae</i> sensu lato 8734
<i>Sericethis</i> sp. Australia <i>Metarhizium anisopliae</i> sensu lato 4134 4236	Colombia <i>Acremonium alternatum</i> 7282 <i>Fusarium</i> sp. 6602	Denmark <i>Beauveria bassiana</i> 4055
<i>Strigoderma arboricola</i> USA, Michigan <i>Metarhizium robertsii</i> 1968	Indonesia, Sulawesi <i>Fusarium</i> sp. 7063	USA, Nebraska <i>Beauveria bassiana</i> 3112
<i>Xyloryctes jamaicensis</i> India <i>Beauveria</i> sp. 2412	Ivory Coast <i>Beauveria bassiana</i> 5436 5437 5438 5439 5440 5441 5442 5459 5460 5477 5482 5483 5484 5485 5486 5487	<i>Anotylus rugosus</i> Denmark <i>Beauveria bassiana</i> 4051 4056
Western Samoa <i>Metarhizium anisopliae</i> var. <i>majus</i> 297 298	<i>Fusarium</i> sp. 5461 <i>Isaria fumosorosea</i> 6730	<i>Anotylus</i> sp. Denmark <i>Beauveria bassiana</i> 4046
Coleoptera: Scarabaeidae: Aphodiinae	Kenya <i>Beauveria bassiana</i> 2685 2686 2687	<i>Gyrohypnus angustatus</i> Denmark <i>Beauveria bassiana</i> 4054
USA, New York <i>Tolypocladium inflatum</i> 4877 4878 4879 4880 4881 4882 4883 4884 4885 4886 4887 4888 4889 4890 4891 4892 4893 4894 4895 4896 4897 4898	Mexico <i>Beauveria bassiana</i> 2693 3818 3819 <i>Isaria fumosorosea</i> 7284	<i>Staphylinus olens</i> Denmark <i>Isaria farinosa</i> 4040
Coleoptera: Scarabaeidae: Melolonthinae	Nicaragua <i>Beauveria bassiana</i> 3440 3443 3445 3448 3453	<i>Tachyporus hypnorum</i> Denmark <i>Lecanicillium longisporum</i> 4050
<i>Antitrogus rugulosus</i> Australia <i>Paraisaria dubia</i> 5764	Sri Lanka <i>Beauveria bassiana</i> 7758	<i>Tachyporus</i> sp. Denmark <i>Beauveria bassiana</i> 4028
Coleoptera: Scolytidae	Togo <i>Beauveria bassiana</i> 2688 2689 2690 2691 2692 5443 5444 5445 5446 5447 5448 5449 5450 5451 5452 5453 5454 5455 5456 5457 5458 5478 5479 5480 5481 5488 5489 5490	Coleoptera: Tenebrionidae Brazil, Ceará <i>Beauveria bassiana</i> 757 783 787
Switzerland <i>Beauveria bassiana</i> 1566 <i>Beauveria caledonica</i> 1567	Uganda <i>Fusarium</i> sp. 5879	Kazakhstan <i>Beauveria bassiana</i> 6478 6483 <i>Verticillium lecanii</i> 6487
USA, Hawaii <i>Beauveria bassiana</i> 3040	USA, Texas <i>Candida</i> sp. 5729	Republic of Korea <i>Isaria farinosa</i> 5699
<i>Dendroctonus micans</i> Denmark <i>Lecanicillium muscarium</i> 4036	<i>Ips</i> sp. Canada, British Columbia <i>Beauveria pseudobassiana</i> 1855	Uzbekistan <i>Beauveria bassiana</i> 6057 6064 6077 6078 6096 6113
Turkey <i>Beauveria bassiana</i> (?) 9271 <i>Beauveria</i> sp. 9272 9273 9274 <i>Isaria farinosa</i> 9269 9270 9275 9276 9277 9278	<i>Ips stenographus</i> Norway <i>Beauveria bassiana</i> 6900	<i>Alphitobius diaperinus</i> <i>Beauveria bassiana</i> 5836 5838 5839 5840 5843
<i>Lecanicillium muscarium</i> 9267 9268	<i>Ips typographus</i> Denmark <i>Beauveria brongniartii</i> 4024	<i>Isaria fumosorosea</i> 5844 5845 5846 5847
<i>Dendroctonus ponderosae</i> Canada, British Columbia <i>Beauveria bassiana</i> 1849 1853	Switzerland <i>Beauveria bassiana</i> 7525 7526	<i>Metarhizium anisopliae</i> sensu lato 5837 5841 5842 5848 5850
<i>Dendroctonus rufipennis</i> Canada, British Columbia <i>Evlachovaea</i> sp. 1017	<i>Tomicus minor</i> France <i>Beauveria bassiana</i> 5070 5071 <i>Beauveria pseudobassiana</i> 4933	<i>Verticillium lecanii</i> 5849
<i>Dryocoetes confusus</i> Canada <i>Beauveria bassiana</i> 9184	<i>Tomicus pimperda</i> France <i>Beauveria</i> sp. 4909 4910 4911 4912 4913 4914 4915 4916 4917 4918	Denmark <i>Isaria farinosa</i> 5858
		USA, West Virginia <i>Beauveria bassiana</i> 7941
		<i>Pterohelaeus darlingensis</i> Australia <i>Beauveria bassiana</i> 8065
		<i>Tenebrio molitor</i> <i>Aspergillus flavus</i> 9381
		Denmark <i>Beauveria bassiana</i> 8038

Finland

Beauveria bassiana 5623
Isaria fumosorosea 5627
Metarhizium brunneum 5626

Republic of China

Isaria farinosa 8917
Lecanicillium muscarium 8923
Metarhizium anisopliae sensu lato
8775 8776 8777 8778 8779 8780
8781 8782 8783 8784 8785 8786
8787 8788 8789 8790 8791 8792
8793 8794 8795 8796 8797 8798
8799 8858 8859 8860 8861 8862
8863 8864 8865 8866 8867 8868
8869 8870 8871 8872 8873 8874
8875 8876 8877 8878 8879 8880
8881 8882 8883 8884 8885 8886
8887 8894 8895 8896 8897 8898
8899 8900 8901 8902 8903 8904
8905 8906 8907 8908 8909 8910
8911 8912 8913 8914 8915 8916
8941 8942 8943 8944 8945 8946
8947 8948 8949 8950 8951 8952
8953 8954 8955 9235 9236

Purpureocillium lilacinum 8918
8919 8920 8921 8922

Tribolium castaneum

Finland

Beauveria sp. 5622
Metarhizium anisopliae sensu lato
5624
Metarhizium brunneum 5625

USA, Washington

Metarhizium anisopliae sensu lato
3389
Metarhizium robertsii 3388

Geographical Origin

Argentina

Buenos Aires
Beauveria bassiana 5501 7202 7466
 7471 8461 8520 8521 8522 8523 8524
 8525 8526 8530

Beauveria sp. 7463

Metarhizium brunneum 6120

Corrientes

Beauveria bassiana 8464

Tucumán

Beauveria bassiana 2010 2509 2515
 7470 8372 8373 8462 8463

Australia

Metarhizium anisopliae sensu lato
 4125

Metarhizium brunneum 4228

Australian Capital Territory

Beauveria bassiana 7853

Metarhizium anisopliae sensu lato
 7863 8837 8838

New South Wales

Beauveria bassiana 4130 7813 8763
 8853 8854

Isaria fumosorosea 8892

Metarhizium anisopliae sensu lato
 4568 4574 4777 4778 4779 4780 7498
 7499 7500 7814 8492 8495 8764 8765
 8766 8767 8829 8844

Metarhizium brunneum 472

Metarhizium majus 4566 4601

Metarhizium sp. 7495 8851 8852 8855
 8856 8857

Northern Territory

Metarhizium anisopliae sensu lato
 8745 8746 8747

Queensland

Beauveria bassiana 325 8065

Metarhizium anisopliae var. *lepidiotae*
 7453 8732

Metarhizium anisopliae sensu lato
 7411 7451 7452 7496 7504 7816 7819
 7824 7825 7826 7827 7828 7829 7830
 7831 7832 7839 7842 7843 7844 7846
 7854 7864 7865 7931 8500 8558 8559
 8563 8564 8565 8566 8567 8577 8582
 8583 8585 8592 8610 8615 8616 8617
 8618 8619 8620 8621 8733 8734 8744
 8754 8755 8761 8762 8828 8833 8834
 8839 8845 8847 8850 10469

Metarhizium anisopliae sensu stricto
 7450

Metarhizium lepidiotae 7412 7488

Metarhizium majus 7505

Metarhizium pingshaense 7410 7417

Metarhizium robertsii 7449

Paraisaria dubia 5764

South Australia

Metarhizium anisopliae sensu lato
 4132 4133 4139 7845

Metarhizium brunneum 346 4131

Tasmania

Beauveria amorpha 4149
Beauveria bassiana 4135 4136 4274
 4721 8835 8836

Isaria fumosorosea 8840

Metarhizium anisopliae sensu lato
 4134 4137 4138 4141 4236 4346 4677
 4716 4722

Metarhizium flavoviride var. *flavoviride* ■
 4719 4720

Sterile mycelium 4243
 Unidentified sp. 4140

Victoria

Beauveria bassiana 8756 8757
Metarhizium anisopliae sensu lato
 7815 8543 8544 8545 8546 8547 8548

Metarhizium frigidum 4124

Western Australia

Metarhizium anisopliae sensu lato
 7932 7933 7934 7935 7936 8549 8550
 8551 8552 8553 8554 8555 8556 8557

8576 8848 8849

Metarhizium robertsii 7424

Azores

Beauveria amorpha 4990
Beauveria brongniartii 4992 4993
 4994 4995

Belarus

Isaria sp. 9519
Purpureocillium lilacinum 9524
Polycephalomyces sp. 9497
Lecanicillium fungicola 9483

Belgium

Beauveria bassiana 1848

Benin

Fusarium sp. 5875 5878
Purpureocillium lilacinum 5876 5877
 5880 5882 6188 6190

Brazil

Beauveria bassiana 1833 3219
Beauveria sp. 1835

Isaria amoenerosea 4097

Alagoas

Beauveria bassiana 1954 1956
Isaria farinosa 1957

Amazonas

Beauveria bassiana 731 732 756 2512
Isaria fumosorosea 2956

Bahia

Beauveria bassiana 1961 2075
Metarhizium anisopliae sensu lato
 1958

Ceará

Beauveria bassiana 753 757 783 784
 785 786 787 788 804 805 4001

Distrito Federal

Metarhizium anisopliae sensu lato
 3479

Espírito Santo

Beauveria bassiana 1483

Goiás

Beauveria bassiana 733 734 735 736
 738 739 752 754 758 809 928 930 931

934 956 1476 1971 2079 2625 2626

2938 2942 2961

Isaria amoenerosea 741 744 2220 2958

2959 2960

Isaria fumosorosea 722 2216 2217
 2219 2221

Metarhizium anisopliae sensu lato
 725 760 808 929 932 939 1885 2076
 2077 2513 2635 2941

Metarhizium robertsii 724 2514

Purpureocillium lilacinum 723 2952

Penicillium sp. 2950

Pochonia chlamydosporia var.
chlamydosporia 2218

Mato Grosso

Beauveria bassiana 937 938 941 942
 943 946 947 948 949 950 951 952
 953 982

Metarhizium anisopliae sensu lato
 954

Pará

Beauveria caledonica 2251

Metarhizium anisopliae sensu lato
 1901

Paraná

Beauveria bassiana 958 1060 1061
 1450 1453 1454 1455 1458 1461 1462
 1463 1466 1469 2511 2520 2642

Metarhizium anisopliae sensu lato
 1056 1989

Metarhizium anisopliae sensu stricto
 3924

Rio de Janeiro

Purpureocillium lilacinum 1951

Rio Grande do Sul
Beauveria bassiana 1456 1459 1460
 1464 1465 1475 3098

Unidentified sp. 3471 3478

Santa Catarina

Beauveria bassiana 1467 1470 1471
 1472 1473

São Paulo

Beauveria bassiana 1480 1966 2559
 2638 2639 2945 2946

Cameroon

Centre-Sud

Beauveria bassiana 6526 6527 6528
 6529 6530 6531 6532

Canada

Beauveria bassiana 9184

Metarhizium anisopliae sensu lato
 2135 2136 2137 2138 2139 8499

Metarhizium robertsii 2134

British Columbia

Beauveria bassiana 1849 1852 1853
 1854 7972 7978

Beauveria pseudobassiana 1855

Evlachovaea sp. 1017

Lecanicillium muscarium 8048 8049
 8050 8051 8052 8053 8054

Lecanicillium pissodis 8055 8056 8057

Tolypocladium cylindrospororum 7456

Ontario

Beauveria bassiana 5807

Québec

Beauveria bassiana 2983 2984 2985
 2986 2987 2988 2989 2990 2991

Metarhizium robertsii 2981

China

Beauveria asiatica 4384 4474
Beauveria brongniartii 4385 4386
 4388 4465 4466 4467 4468 4469
 4470 4471 4472 4473 4475 4476 4477
 4478

Mixed Culture sp. 4387

Colombia

Beauveria bassiana 842
 Caldas
Acremonium alternatum 7282
Fusarium sp. 6602
 Cauca
Evlachovaea sp. 7551
 Cundinamarca
Metarhizium robertsii 797
 Nariño
Beauveria bassiana 2248 2249 2250
Isaria farinosa 799
 Valle del Cauca
Beauveria bassiana 721

Commonwealth of Independent States

Beauveria bassiana 2695

Costa Rica

Cartago
Beauveria bassiana 3437 3438 3439
 3441 3442 3444 3446 3447 3450 3451
 3452 3455 3457

Denmark

Batkøya sp. 5810
Beauveria bassiana 4019
Beauveria brongniartii 4024
Isaria farinosa 4043 4044
Lecanicillium muscarium 4036
Verticillium lecanii 4022

Århus
Metarhizium brunneum 4020

Funen
Beauveria bassiana 5857

Fyn
Beauveria bassiana 4051 4055 4056
 Jutland
Beauveria bassiana 4021 4031

Isaria farinosa 5858
Verticillium lecanii 5856

Lammfjorden

Erynia sp. 2664

Storstrøm

Beauveria bassiana 4015

Vestsjælland

Zoophthora anglica 2505

Zealand

Beauveria bassiana 4013 4018 4023
 4034 4038 4041 4046 4049 4052 4054
 8037 8038

Beauveria caledonica 8024

Beauveria sp. 4027

Fusarium sp. 4011

Isaria farinosa 4039 4045

Lecanicillium longisporum 4050

Sterile mycelium 4009

Unidentified sp. 4037

Verticillium lecanii 4047 4048

Zeeland

Beauveria bassiana 4016 4028 4032
Erynia sp. 2525 2536 2537 2538 2539
 2553 2663
Isaria farinosa 4029 4040
Lecanicillium muscarium 4033

Ecuador

Beauveria bassiana 2557

Ethiopia

Gojam
Beauveria bassiana 6693
 Northern Shoa
Aspergillus flavus 6454
Beauveria bassiana 6669 6676 6681
Metarhizium anisopliae sensu lato
 6670 6671 6672 6673 6674 6675 6677
 6678 6679 6680 6682 6683 6684 6685
 Sidamo
Beauveria bassiana 6689
 Tigray
Beauveria bassiana 6695 6696 6697
 Welo
Beauveria bassiana 6692
 Western Shoa
Beauveria bassiana 6686

Finland

Beauveria sp. 5622
Isaria fumosorosea 5627
 Hämeen Lääni
Metarhizium brunneum 5626
 Uudenmaan Lääni
Metarhizium anisopliae sensu lato
 5624
 Vaasan Lääni
Beauveria bassiana 5623
Metarhizium brunneum 5625

France

Aphanocladium album 1329
Beauveria bassiana 149 150 384 1157
 1159 1160 1165 1167 1168 1169 1170
 1182 1186 1306 1389 1515 1982
Beauveria brongniartii 617 979
Lecanicillium muscarium 1328 1401
 1402 1403
Metarhizium anisopliae var. *majus*
 3145
Metarhizium guizhouense 977
Metarhizium majus 978

Ardennes

Beauveria bassiana 1647
 Charente
Scopulariopsis sp. 2327
 Charente-Maritime
Beauveria bassiana 1975 1980
 de Gourgas
Beauveria pseudobassiana 4933
Isaria farinosa 5080

Drôme

Beauveria bassiana 1398 1399

Eure

Beauveria bassiana 1073 1074 1075
 1158 1193

Eure-et-Loir

Beauveria bassiana 1192

Finistere

Beauveria bassiana 813 814 815
Metarhizium anisopliae sensu lato
 818
Metarhizium brunneum 817

Haute-Savoie

Acremonium furcatum 1372

Hérault

Beauveria bassiana 816 1185 5070
 5071 5072

Isaria farinosa 5073 5074 5075
Metarhizium guizhouense 819

La Valette

Unidentified sp. 3980

Loire

Unidentified sp. 1634

Loiret

Beauveria bassiana 1191

Maine-et-Loire

Metarhizium brunneum 820

Morbihan

Metarhizium flavoviride 2024
Metarhizium flavoviride var. *flavoviride*■
 1184

Réunion

Metarhizium anisopliae sensu lato
 3148

Vaucluse

Beauveria bassiana 1509 1510 1511
 1518 1519
Beauveria sp. 4909 4910 4911 4912
 4913 4914 4915 4916 4917 4918
Isaria farinosa 1507 1508
Isaria fumosorosea 1506
Lecanicillium lecanii 1505

Vienne

Beauveria bassiana 1491

Vosges

Beauveria sp. 1327

Yvelines

Beauveria bassiana 1156 1161 1162
 1194 2463

Germany

Metarhizium brunneum 5198
Metarhizium robertsii 1910

Hesse

Beauveria bassiana 340
Beauveria brongniartii 5355 5356
 5357 5358 5359 5360 5361 5362
 5363 5364

Rheinhessen-Pfalz

Evlachovaea sp. 7403

Ghana

Unidentified / Hyphomycetes 8641

Hungary

Csongrád
Beauveria bassiana 6884 6885

Geographical Origin

India	<i>Beauveria brongniartii</i> 2660 <i>Beauveria</i> sp. 2412 <i>Metarhizium guizhouense</i> 3603 <i>Metarhizium pingshaense</i> 2231 3210 Tamil Nadu <i>Beauveria</i> sp. 8250	<i>Beauveria brongniartii</i> 985 <i>Beauveria</i> sp. 1681 <i>Metarhizium robertsii</i> 1046 <i>Paecilomyces canadensis</i> 984 <i>Tilachlidium</i> sp. 2415	Netherlands <i>Beauveria brongniartii</i> 7761 <i>Hirsutella fusiformis</i> 5474
Indonesia	<i>Metarhizium brunneum</i> 2224 Jawa Barat, Java <i>Metarhizium anisopliae</i> var. <i>majus</i> 2151 Sulawesi <i>Fusarium</i> sp. 7063 Sulawesi Selatan, Celebes <i>Aspergillus parasiticus</i> 2173 <i>Metarhizium brunneum</i> 2210 Unidentified / Hyphomycetes 2225	<i>Beauveria bassiana</i> 6478 6483 <i>Isaria farinosa</i> 6488 6489 6491 <i>Verticillium lecanii</i> 6487 <i>Verticillium</i> sp. 6484 6501	New Zealand <i>Metarhizium anisopliae</i> sensu stricto 2518 South Island <i>Beauveria bassiana</i> 3055 3063 3065 3066 3070 8077 8078 8079 <i>Beauveria brongniartii</i> 3054 <i>Metarhizium anisopliae</i> sensu lato 3056 3057 <i>Metarhizium pingshaense</i> 7435
Iran	Sistan Va Baluchestan <i>Beauveria bassiana</i> 6903	<i>Beauveria bassiana</i> 2685 2686 2687	Nicaragua <i>Beauveria bassiana</i> 3440 3443 3445 3448 3453
Israel	<i>Conidiobolus osmodes</i> 79 <i>Conidiobolus</i> sp. 80 81 <i>Zoophthora phytonomi</i> 113 191 192	Kyrgyz Republic <i>Beauveria bassiana</i> 6499 <i>Verticillium</i> sp. 6486	Norway Akershus <i>Beauveria bassiana</i> 6900 Østfold <i>Metarhizium anisopliae</i> sensu lato 6901 <i>Metarhizium brunneum</i> 6477
Italy	<i>Beauveria bassiana</i> 1559 1560 1561 1562 1563 Sicily <i>Beauveria bassiana</i> 1106	Malawi Southern <i>Beauveria malawiensis</i> 7760	Papua New Guinea <i>Metarhizium anisopliae</i> sensu lato 2156 2163 2165 2166 2167 8748 <i>Metarhizium guizhouense</i> 4604 <i>Metarhizium pingshaense</i> 2162 3604 <i>Scopulariopsis</i> sp. 2169 <i>Synnematium jonesii</i> 5664
Ivory Coast	<i>Beauveria bassiana</i> 5436 5437 5438 5439 5440 5441 5442 5459 5460 5477 5482 5483 5484 5485 5486 5487 <i>Fusarium</i> sp. 5461 <i>Isaria fumosorosea</i> 6730	Mexico <i>Beauveria bassiana</i> 319 2693 3287 3309 3311 9297 9298 9299 9300 9301 9302 <i>Metarhizium anisopliae</i> sensu lato 3305 3306 3308 Chiapas <i>Isaria fumosorosea</i> 7284 Colima <i>Beauveria bassiana</i> 3310 5740 Durango <i>Lecanicillium</i> sp. 2(?) 2832 Guanajuato State Unidentified sp. 3821 Jalisco <i>Beauveria bassiana</i> 2330 5741 5742 5743 5744 5745 Mexico <i>Metarhizium robertsii</i> 2469 Oaxaca <i>Beauveria bassiana</i> 3818 3819 Tabasco <i>Beauveria bassiana</i> (?) 6890 6891	Peru <i>Beauveria bassiana</i> 5982 Andes Mountains <i>Beauveria amorphula</i> 1969 Junín <i>Beauveria bassiana</i> 5983 La Libertad <i>Beauveria bassiana</i> 5984
Japan	<i>Beauveria brongniartii</i> 6235 <i>Harposporium janus</i> 5601 Aichi Prefecture <i>Beauveria bassiana</i> 1041 Aomori Prefecture <i>Mixed Culture</i> sp. 1043 Hokkaido <i>Beauveria brongniartii</i> 4389 4458 <i>Beauveria</i> sp. 4390 4391 4392 Unidentified / Hyphomycetes 5223 5224 5225 5226 5227 Ibaraki Prefecture <i>Beauveria brongniartii</i> 6412 <i>Beauveria sungii</i> 1685 Kumamoto Prefecture <i>Beauveria bassiana</i> 1679 Nagano Prefecture <i>Beauveria amorphula</i> 1676 <i>Beauveria bassiana</i> 1683 <i>Beauveria</i> sp. 1682 <i>Cordyceps brongniartii</i> 7516 Nagasaki Prefecture <i>Beauveria bassiana</i> 1678 Tokyo Prefecture <i>Beauveria amorphula</i> 1680	Morocco <i>Beauveria bassiana</i> 1153 1154 1155 1163 1164 1171 1172 1173 1174 1175 1176 1177 1178 1179 1180 1181 1183 1188 1189 1190 1309 1311 1312 1313 1811 1815 1816 1817 1818 1819 1820 1821 <i>Fusarium</i> sp. 1310	Philippines Benguet <i>Beauveria bassiana</i> 3197 3198 3199 Manila <i>Beauveria brongniartii</i> 1431 <i>Isaria farinosa</i> 2355 Quezon <i>Metarhizium majus</i> 1914 1946
Myanmar		Portugal Azores <i>Beauveria bassiana</i> 5148 5150 <i>Isaria fumosorosea</i> 2679 <i>Metarhizium anisopliae</i> sensu lato 3329 4907 4908 <i>Metarhizium brunneum</i> 3864 <i>Metarhizium robertsii</i> 5149 Unidentified sp. 3841	
Nepal			

PR China

Beauveria bassiana 6387
Anhui
 Beauveria amorpha(?) 6827
 Beauveria bassiana 6390 8414
 Isaria cateniamannulata 6241 6243
 Isaria cateniofliqua 6244
 Metarhizium anisopliae sensu lato 8420
 Scopulariopsis sp. 8421
Gansu Province
 Beauveria bassiana 7155 7164
Guizhou Province
 Beauveria pseudobassiana 6229
 Isaria fumosorosea 9602
Hebei Province
 Beauveria bassiana 7156 7157 7166
 7167 7168 7169 7170 7171 7172 7173
 7174 7175 7176 7177 7178
Kwon Tung
 Metarhizium guizhouense 683

Republic of China

Taiwan
 Isaria farinosa 8917
 Lecanicillium muscarium 8923
 Metarhizium anisopliae sensu lato 8775 8776 8777 8778 8779 8780 8781
 8782 8783 8784 8785 8786 8787 8788
 8789 8790 8791 8792 8793 8794 8795
 8796 8797 8798 8799 8858 8859 8860
 8861 8862 8863 8864 8865 8866 8867
 8868 8869 8870 8871 8872 8873 8874
 8875 8876 8877 8878 8879 8880 8881
 8882 8883 8884 8885 8886 8887 8894
 8895 8896 8897 8898 8899 8900 8901
 8902 8903 8904 8905 8906 8907 8908
 8909 8910 8911 8912 8913 8914 8915
 8916 8941 8942 8943 8944 8945 8946
 8947 8948 8949 8950 8951 8952 8953
 8954 8955 9235 9236
 Purpureocillium lilacinum 8918 8919
 8920 8921 8922

Republic of Georgia

Autonomous Republic of Adjara
 Evlachovaea kintrischica 7218 8058

Republic of Kazakhstan

Beauveria bassiana 10350

Republic of Korea

Beauveria bassiana 2040
Beauveria sp. 4853
 Cordyceps sp. 4852
Chungnam Province
 Beauveria sp. 5697
Gyeongbhuk Province
 Beauveria bassiana 7275
Gyeonggi Province
 Beauveria bassiana 7266
 Isaria farinosa 5699
 Unidentified / Hyphomycetes 5695
Jeju Province
 Beauveria bassiana 7241 7271 7272
Jheonnam
 Beauveria bassiana 7270

Kangwon-do

Beauveria bassiana 6721 7244 7247
 7251 7261 7264
Beauveria brongniartii 7268
Beauveria sungii 5689 7279 7280
Isaria amoenerosea 4849
Isaria farinosa 7276
Isaria fumosorosea 5694
Lecanicillium muscarium 7248

Russian Federation

Karachayev-Cherkessiya Republ
 Beauveria brongniartii 9452
 Isaria farinosa 9511
 Lecanicillium sp. 9459
Krasnodarsky Krai
 Beauveria bassiana 9444
Moscow Region
 Beauveria bassiana 9441 9449
 Isaria coleopterorum 9509
 Lecanicillium nr. *aranearum* 9460
Primorsky Krai
 Beauveria bassiana 7581 9442
 Beauveria sp. 7580 7591
 Clonostachys rosea 9491
 Cordyceps sp. 7848
 Engyodontium rectidentatum 7805
 Polycephalomyces sp. 9496
 Tolypocladium cylindrosporum 7812
Sakhalin Region
 Sporothrix insectorum 9502

Solomon Islands

Metarhizium anisopliae sensu lato 4290 4333 4334 4335 4336 4337 4338
 4339 4340 4341 4557 4558 4572 4582
Metarhizium pingshaense 4342 4610

Sri Lanka

Beauveria bassiana 7758

Switzerland

Beauveria brongniartii 1069
Beauveria varroae 2694
Conidiobolus coronatus 1572 1573
 1574 1575
Metarhizium anisopliae sensu lato 1377
Metarhizium brunneum 1066
Pandora blunckii 915 917 920
Zoophthora anglica 396

Bern

Beauveria brongniartii 7528

Graubünden

Metarhizium anisopliae sensu lato 7524

Lucerne

Beauveria bassiana 7525 7526

Schaffhausen

Beauveria bassiana 1566
Beauveria caledonica 1567

Thurgau

Beauveria brongniartii 1067 1068
 1070 1071 1072 1076 1077

Uri

Metarhizium anisopliae sensu lato 7532

Zurich

Pandora blunckii 1715 1716 1717 1718

Syria

Purpureocillium lilacinum 6110

Thailand

Metarhizium pingshaense 538

Togo

Beauveria bassiana 2688 2689 2690
 2691 2692 5443 5444 5445 5446 5447
 5448 5449 5450 5451 5452 5453 5454
 5455 5456 5457 5458 5478 5479 5480
 5481 5488 5489 5490

Turkey

Beauveria bassiana 10347

Gaziantep

Beauveria bassiana 5669 5670

Beauveria sp. 5678 5833

Isaria farinosa 5754 5834

Gümüşhane

Beauveria bassiana 8668

Hatay

Beauveria bassiana 5668

Unidentified / Hyphomycetes 5677

Kahraman Maras

Beauveria sp. 5831

Trabzon

Beauveria bassiana(?) 9271

Beauveria sp. 9272

Fusarium sp. 9273 9274

Isaria farinosa 9269 9270 9275 9276
 9277 9278

Lecanicillium muscarium 9267 9268

Uganda

Fusarium sp. 5879

Ukraine

Autonomous Republic of Crimea

Simplicillium lamellicola 9479

Kherson Oblast

Beauveria sp. 7595

Isaria farinosa 9516

Isaria fumosorosea 9521

United Kingdom

Beauveria bassiana 6552 6559 6560
 7764 7769 7773 7774

Metarhizium anisopliae sensu lato 6549 6551

Metarhizium anisopliae sensu stricto 6546

Verticillium lecanii 6545

England

Beauveria bassiana 7763

Zoophthora anglica 1739

Geographical Origin

USA
Yugoslavia

USA	
<i>Metarhizium anisopliae</i> sensu lato	8124 8125 8126 8127 8128 8129 8130
1903	8132 8133 8134 8135 8136 8137 8138
<i>Metarhizium robertsii</i>	8139 8140 8141 8143 8144 8145 8146
Arkansas	8147 8148 8149 8150 8151 8152 8153
<i>Beauveria bassiana</i>	8154 8156 8158 8159 8160 8161 8164
<i>Sorosporella uvella</i>	8166 8167 8168 8169 8170 8171 8172
California	8173 8174 8175 8176 8177 8178 8180
<i>Metarhizium robertsii</i>	8181 8182 8185 8186 8187 8188
Connecticut	<i>Fusarium</i> sp. 8131 8266 8267
<i>Beauveria bassiana</i>	<i>Isaria farinosa</i> 9944 9945
<i>Metarhizium anisopliae</i> sensu lato	<i>Isaria fumosorosea</i> 8142
3713 3720 6388 7234 8415 8416 8417	<i>Lecanicillium lecanii</i> 7181 7182 8115
8418 8419	<i>Lecanicillium muscarium</i> 8114 8118
<i>Metarhizium brunneum</i>	8157 8163 8165
<i>Metarhizium robertsii</i>	<i>Lecanicillium muscarium(?)</i> 8162
Unidentified sp.	8265
Delaware	<i>Metarhizium robertsii</i> 1968
<i>Zoophthora phytonomi</i>	<i>Mucor circinelloides</i> 6470
Florida	Unidentified / <i>Hyphomycetes</i> 8155
<i>Aspergillus nidulans(?)</i>	8179 8183 8184
<i>Beauveria bassiana</i>	<i>Nebraska</i>
5981 5986	<i>Beauveria bassiana</i> 3111 3112
<i>Cladosporium sphaerospermum</i>	<i>New Jersey</i>
6516	<i>Fusarium</i> sp. 3030 3031 3032
<i>Isaria javanica</i>	<i>New York</i>
322	<i>Beauveria bassiana</i> 350 534 535 1039
<i>Metarhizium pingshaense</i>	1081 1619 1620 1621 1622 1623 1624
5197	1704 1705 1706 1707 1708 1709 1710
<i>Purpureocillium lilacinum</i>	1711 1712 1713 1721 1722 1723 1749
410	1750 1775 1776 1777 1778 1779 1780
<i>Stilbella buquetii</i>	1781 2030 2031 2032 2033 2034 3667
2915	4973 4974 4975 5533 5534 5535 5536
<i>Tilachlidium</i> sp.	5537 6216 6217 6391 6986 6987 6988
10132	7158 7159 7179 8412 8413
Georgia	<i>Beauveria brongniartii</i> 6213 6214
<i>Beauveria bassiana</i>	6215
336 337 2676	<i>Erynia</i> sp. 5352
<i>Fusarium</i> sp.	<i>Fusarium</i> sp. 4825
Hawaii	<i>Isaria farinosa</i> 8411
<i>Beauveria bassiana</i>	<i>Metarhizium anisopliae</i> sensu lato
3040 8705	1280 2548 3330 3331 3332 3333 3334
<i>Metarhizium anisopliae</i> sensu lato	3335 3336 3337 3338 3339 3340 4819
9217 9218	4820 4821 4822 4823 4824 9372 9373
Illinois	<i>Metarhizium robertsii</i> 1298 1878 2547
<i>Beauveria bassiana</i>	3108 3211 4123
7152 7153 7154	<i>Purpureocillium lilacinum</i> 9371
<i>Metarhizium anisopliae</i> sensu lato	<i>Tolyphocladium inflatum</i> 4877 4878
7180	4879 4880 4881 4882 4883 4884 4885
<i>Zoophthora phytonomi</i>	4886 4887 4888 4889 4890 4891 4892
3344	4893 4894 4895 4896 4897 4898
Kansas	Unidentified / <i>Hyphomycetes</i> 2999
<i>Beauveria bassiana</i>	<i>Zoophthora phytonomi</i> 202
6471	
<i>Metarhizium robertsii</i>	
Kentucky	<i>North Carolina</i>
<i>Beauveria bassiana</i>	<i>Metarhizium robertsii</i> 23
2270	
<i>Beauveria brongniartii</i>	
2271	
Maine	<i>Oregon</i>
<i>Beauveria bassiana</i>	<i>Beauveria bassiana</i> 201 5997
252 353	<i>Isaria farinosa</i> 2937
Maryland	<i>Metarhizium anisopliae</i> sensu lato
<i>Beauveria bassiana</i>	7494
8998	<i>Metarhizium brunneum</i> 2107
Massachusetts	
<i>Beauveria bassiana</i>	
3037	
<i>Metarhizium anisopliae</i> sensu lato	
6389	
<i>Penicillium</i> sp.	
3036	
<i>Pochonia bulbillosa(?)</i>	
3035	
Michigan	
<i>Aspergillus flavus</i>	
6469	
<i>Aspergillus</i> sp.	
6571	
<i>Beauveria bassiana</i>	
2580 5813 7160	
7161 7162 7163 7165 8260 8261 8262	
8263 8771 8772 8773 8774	
<i>Beauveria</i> sp.	
8110 8111 8112 8113	
8116 8117 8119 8120 8121 8122 8123	
South Dakota	
<i>Beauveria bassiana</i>	
2579	
Texas	
<i>Aspergillus</i> sp.	
7048	
<i>Beauveria bassiana</i>	
3097 5465 7795	
<i>Candida</i> sp.	
5729	
<i>Isaria javanica</i>	
7119	
Vermont	
<i>Beauveria</i> sp.	
5186	
<i>Mixed Culture</i> sp.	
5188	
<i>Paecilomyces</i> sp.	
5184 5193	
<i>Pochonia chlamydosporia</i>	
3314	
Washington	
<i>Beauveria bassiana</i>	
344 1079 3386	
<i>Metarhizium anisopliae</i> sensu lato	
3389 7000 7001 7002 7003 7004 7005	
7006 7007 7008 7009	
<i>Metarhizium robertsii</i>	
3388	
West Virginia	
<i>Beauveria bassiana</i>	
7941	
Uzbekistan	
<i>Beauveria bassiana</i>	
6055 6057 6058	
6059 6061 6062 6063 6064 6074 6075	
6077 6078 6092 6095 6096 6099 6111	
6112 6113	
Vietnam	
<i>Beauveria bassiana</i>	
751	
West Africa	
Cape Verde Islands	
<i>Beauveria bassiana</i>	
4798 4799	
Western Samoa	
Apia	
<i>Metarhizium anisopliae</i> var. <i>majus</i>	
297 298	
<i>Metarhizium anisopliae</i> sensu stricto	
2223	
Yugoslavia	
<i>Beauveria bassiana</i>	
505 506 507 510	
Croatia	
<i>Beauveria bassiana</i>	
509	
Serbia	
<i>Beauveria bassiana</i>	
504	

Abbott Laboratories89-201 *Beauveria bassiana* 2695**Ahn, S.B.**E5-1 *Beauveria bassiana* 2040**Alle, Leslie**

84-1 *Beauveria bassiana* 1704
 84-10 *Beauveria bassiana* 1711
 84-11 *Beauveria bassiana* 1712
 84-12 *Beauveria bassiana* 1713
 84-13 *Beauveria bassiana* 1721
 84-16 *Beauveria bassiana* 1749
 84-18 *Beauveria bassiana* 1750
 84-19 *Beauveria bassiana* 1722
 84-20 *Beauveria bassiana* 1723
 84-22 *Beauveria bassiana* 1775
 84-23 *Beauveria bassiana* 1776
 84-24 *Beauveria bassiana* 1777
 84-25 *Beauveria bassiana* 1778
 84-26 *Beauveria bassiana* 1779
 84-27 *Beauveria bassiana* 1780
 84-28 *Beauveria bassiana* 1781
 84-3 *Beauveria bassiana* 1705
 84-4 *Beauveria bassiana* 1706
 84-5 *Beauveria bassiana* 1707
 84-7 *Beauveria bassiana* 1708
 84-8 *Beauveria bassiana* 1709
 84-9 *Beauveria bassiana* 1710

Alves, Sergio Batista

252 *Beauveria bassiana* 1480
 267 *Beauveria bassiana* 1833
 290 *Beauveria bassiana* 2638
 290 *Beauveria bassiana* 2559
 292 *Beauveria bassiana* 2639
 295 *Beauveria* sp. 1835
 61 *Beauveria bassiana* 1483
 695 *Beauveria bassiana* 2642

Aoki, Joji

Beau. 22 *Beauveria brongniartii* 985
 Isa. 1 *Beauveria bassiana* 1041
 Met. 6 *Metarhizium robertsii* 1046
 Paec. 1 *Mixed Culture* sp. 1043
 Paec. 6 *Paecilomyces canadensis* 984

ARSEF

1184 *Metarhizium flavoviride* 2024
 1451 (deaccessioned) *Beauveria bassiana*
 1971
 1452 (deaccessioned) *Metarhizium anisopliae* sensu lato 1989
 1667 (deaccessioned) Unidentified sp.
 1634
 2024 *Metarhizium flavoviride* var.
flavoviride 1184
 2210 Unidentified / Hyphomycetes 2225
 2225 *Metarhizium brunneum* 2210
 2379 (never frozen) *Isaria farinosa* 2355
 252 *Beauveria bassiana* 5286
 2547 *Metarhizium robertsii* 4123
 2559 *Beauveria bassiana* 2638
 2575 *Metarhizium robertsii* 3608
 2638 *Beauveria bassiana* 2559
 2662 (deaccessioned) *Erynia* sp. 2553
 7453 *Metarhizium lepidiota* 7488

7488 *Metarhizium anisopliae* var. *lepidiota* 7453
 82 (lost) *Zoophthora phytonomi* 113
 ?1377 *Zoophthora anglica* 396
 ?396 *Metarhizium anisopliae* sensu lato
 1377
 ?397 *Metarhizium brunneum* 1066

ATCC

200994 *Tolyphocladium inflatum* 4884
 26156 *Beauveria brongniartii* 617
 32804 *Hirsutella fusiformis* 5474
 34178 *Ophiocordyceps aphodii* 5498
 34292 *Zoophthora phytonomi* 113
 44767 *Synnematium jonesii* 5664
 74040 *Beauveria bassiana* 7795
 MYA-3093 *Metarhizium robertsii* 2575

Balazy, Stanislaw

1431 *Polycephalomyces formosus* 1424
 1539 *Lecanicillium muscarium* 1335

Bauer, Leah S.

2UIC1817 *Aspergillus flavus* 6469
 2UIC2463 *Mucor circinelloides* 6470
 Legg Park 1 *Isaria farinosa* 9944
 Legg Park 2 *Isaria farinosa* 9945

Bernal, M.C. Hugo Cesar Arredondo

BbGC1 *Beauveria bassiana* 5740
 BbGC11 *Beauveria bassiana* 5745
 BbGC2 *Beauveria bassiana* 5741
 BbGC5 *Beauveria bassiana* 5742
 BbGC8 *Beauveria bassiana* 5743
 BbGC9 *Beauveria bassiana* 5744

Borisov, Boris A.

B.B. 2 *Evlachovaea kintrischica* 8058
 B.B. 2 *Evlachovaea kintrischica* 7218

Brito, Jorge

14A *Beauveria bassiana* 4799
 7A *Beauveria bassiana* 4798

Broadbent, A. Bruce

BB001 *Beauveria bassiana* 5807

CAAS

4pl *Beauveria brongniartii* 4381
 93.1 *Beauveria bassiana* 4382
 CZN.9301 *Beauveria brongniartii* 4380

Castrillo, Louela A.

APMI1 *Beauveria bassiana* 8771
 APMI2 *Beauveria bassiana* 8772
 APMI3 *Beauveria bassiana* 8773
 APMI4 *Beauveria bassiana* 8774
 NY-1 *Beauveria bassiana* 6986
 NY-11 *Beauveria bassiana* 6988
 NY-5 *Beauveria bassiana* 6987

CATIE

1 *Beauveria bassiana* 3437
 10 *Beauveria bassiana* 3446
 11 *Beauveria bassiana* 3447
 12 *Beauveria bassiana* 3448
 14 *Beauveria bassiana* 3450
 15 *Beauveria bassiana* 3451
 16 *Beauveria bassiana* 3452
 17 *Beauveria bassiana* 3453
 19 *Beauveria bassiana* 3455
 2 *Beauveria bassiana* 3438
 21 *Beauveria bassiana* 3457
 3 *Beauveria bassiana* 3439
 4 *Beauveria bassiana* 3440
 5 *Beauveria bassiana* 3441
 6 *Beauveria bassiana* 3442
 7 *Beauveria bassiana* 3443
 8 *Beauveria bassiana* 3444
 9 *Beauveria bassiana* 3445

CBS

118231 *Lecanicillium pissodis* 8057
 150.47 *Ophiocordyceps aphodii* 5498
 205.33 *Hirsutella fusiformis* 5474
 305.95 *Tolyphocladium inflatum* 4884
 316.51 *Metarhizium anisopliae* sensu
 lato 7494
 316.51 *Metarhizium brunneum* 2107
 326.67 *Beauveria brongniartii* 7761
 511.88 *Stilbella buquetii* 2915
 700.74 *Metarhizium flavoviride* 2024
 700.74 *Metarhizium flavoviride* var.
flavoviride 1184

CCFC

006988 *Tolyphocladium inflatum* 4884

CENARGEN

CG 123 *Isaria fumosorosea* 2956
 CG 162 *Isaria amoenerosea* 2958
 CG 163 *Isaria amoenerosea* 2959
 CG 164 *Isaria amoenerosea* 2960
 CG 165 *Beauveria bassiana* 2961
 CG 301 *Purpureocillium lilacinum* 1951
 CG 304 Unidentified sp. 3471
 CG 311 Unidentified sp. 3478
 CG 339 *Metarhizium anisopliae* sensu
 lato 3479
 CG 639 Unidentified / Hyphomycetes
 8641

CENICAFÉ

Bb 9024 *Beauveria bassiana* 9184

CEP

059 *Beauveria bassiana* 7202
 061 *Beauveria* sp. 7463
 075 *Beauveria bassiana* 7466
 083 *Beauveria bassiana* 7470
 092 *Beauveria bassiana* 7471
 112 *Beauveria bassiana* 8520
 113 *Beauveria bassiana* 8521
 114 *Beauveria bassiana* 8522
 116 *Beauveria bassiana* 8523
 117 *Beauveria bassiana* 8524
 118 *Beauveria bassiana* 8525
 119 *Beauveria bassiana* 8526
 138 *Beauveria bassiana* 8461

141 <i>Beauveria bassiana</i> 8530	82-6-28-01 <i>Beauveria bassiana</i> 809	CNPS
147 <i>Beauveria bassiana</i> 8372	82-7-23-01 <i>Metarhizium anisopliae</i> sensu lato 808	25 <i>Metarhizium anisopliae</i> sensu lato 1056
148 <i>Beauveria bassiana</i> 8462	83-01-06A (CB 97) <i>Beauveria bassiana</i> 958	31 <i>Beauveria bassiana</i> 1060
149 <i>Beauveria bassiana</i> 8463	83-03-15-M <i>Beauveria bassiana</i> 947	32 <i>Beauveria bassiana</i> 1061
150 <i>Beauveria bassiana</i> 8373	83-03-15-O <i>Beauveria bassiana</i> 948	Cortez Madrigal, Hipolito
175 <i>Beauveria bassiana</i> 8464	83-03-15-P <i>Beauveria bassiana</i> 949	B1 <i>Beauveria bassiana</i> (?) 6890
Chandler, David	83-03-15-Q <i>Beauveria bassiana</i> 950	B2 <i>Beauveria bassiana</i> (?) 6891
HRI 189.83 <i>Metarhizium anisopliae</i> sensu lato 6549	83-03-15B <i>Beauveria bassiana</i> 951	CP
HRI 33.79 <i>Verticillium lecanii</i> 6545	83-03-15E <i>Beauveria bassiana</i> 946	10 <i>Beauveria bassiana</i> 736
HRI 335.92 <i>Metarhizium anisopliae</i> sensu lato 6551	83-03-15H <i>Beauveria bassiana</i> 952	101 <i>Beauveria bassiana</i> 956
HRI 342.92 <i>Beauveria bassiana</i> 6552	83-03-16C <i>Beauveria bassiana</i> 941	104 <i>Beauveria bassiana</i> 958
HRI 36.79 <i>Metarhizium anisopliae</i> sensu stricto 6546	83-03-16D <i>Beauveria bassiana</i> 942	124 <i>Beauveria bassiana</i> 1971
HRI 386.93 <i>Beauveria bassiana</i> 6559	83-03-16E <i>Beauveria bassiana</i> 943	125 <i>Beauveria bassiana</i> 1450
HRI 397.93 <i>Beauveria bassiana</i> 6560	83-03-16K <i>Beauveria bassiana</i> 953	126 <i>Metarhizium anisopliae</i> sensu lato 1989
CIAT	83-03-16L <i>Metarhizium anisopliae</i> sensu lato 954	14 <i>Beauveria bassiana</i> 735
301 <i>Evlachovaea</i> sp. 7551	83-03-17B <i>Beauveria bassiana</i> 982	143 <i>Beauveria bassiana</i> 1453
CMPPB	83-1-25-01 <i>Beauveria bassiana</i> 934	144 <i>Beauveria bassiana</i> 1454
150 <i>Evlachovaea kintrischica</i> 8058	83-3-3-01 <i>Beauveria bassiana</i> 937	145 <i>Beauveria bassiana</i> 1455
150 <i>Evlachovaea kintrischica</i> 7218	83-3-3-02 <i>Beauveria bassiana</i> 938	146 <i>Beauveria bassiana</i> 1456
CNPAF	83-3-3-03 <i>Metarhizium anisopliae</i> sensu lato 939	148 <i>Beauveria bassiana</i> 1458
52 <i>Beauveria bassiana</i> 1450	83-5-27 <i>Beauveria bassiana</i> 956	149 <i>Beauveria bassiana</i> 1459
53 <i>Metarhizium anisopliae</i> sensu lato 1989	84-02-30-2 <i>Beauveria bassiana</i> 1453	150 <i>Beauveria bassiana</i> 1460
81-11-25-04 <i>Beauveria bassiana</i> 756	84-03-28-1E <i>Beauveria bassiana</i> 1458	151 <i>Beauveria bassiana</i> 1461
81-11-25-05 <i>Beauveria bassiana</i> 731	84-03-28-1F <i>Beauveria bassiana</i> 1454	152 <i>Beauveria bassiana</i> 1462
81-11-25-07 <i>Beauveria bassiana</i> 732	84-03-28-1G <i>Beauveria bassiana</i> 1462	153 <i>Beauveria bassiana</i> 1463
82-07-27-01 <i>Beauveria bassiana</i> 928	84-03-28-1L <i>Beauveria bassiana</i> 1463	154 <i>Beauveria bassiana</i> 1464
82-1-15-02 <i>Beauveria bassiana</i> 735	84-03-28-D <i>Beauveria bassiana</i> 1455	155 <i>Beauveria bassiana</i> 1465
82-1-15-05 <i>Isaria fumosorosea</i> 722	84-03-29-1 <i>Beauveria bassiana</i> 1461	156 <i>Beauveria bassiana</i> 1466
82-1-15-06 <i>Isaria amoenerosea</i> 741	84-03-31-2 <i>Beauveria bassiana</i> 1469	157 <i>Beauveria bassiana</i> 1467
82-1-6-01 <i>Beauveria bassiana</i> 733	84-03-31-6 <i>Beauveria bassiana</i> 1466	159 <i>Beauveria bassiana</i> 1469
82-1-6-02 <i>Metarhizium anisopliae</i> sensu lato 725	84-04-02-1B <i>Beauveria bassiana</i> 1473	160 <i>Beauveria bassiana</i> 1470
82-1-6-03 <i>Beauveria bassiana</i> 734	84-04-02-2 <i>Beauveria bassiana</i> 1472	161 <i>Beauveria bassiana</i> 1471
82-1-6-04 <i>Beauveria bassiana</i> 736	84-04-02-3 <i>Beauveria bassiana</i> 1470	162 <i>Beauveria bassiana</i> 1472
82-1-6-10 <i>Purpureocillium lilacinum</i> 723	84-04-02-4 <i>Beauveria bassiana</i> 1471	163 <i>Beauveria bassiana</i> 1473
82-12-15-01 <i>Metarhizium anisopliae</i> sensu lato 929	84-04-02-5A <i>Beauveria bassiana</i> 1467	165 <i>Beauveria bassiana</i> 1475
82-12-15-02 <i>Beauveria bassiana</i> 930	84-04-03-1A <i>Beauveria bassiana</i> 1465	166 <i>Beauveria bassiana</i> 1476
82-12-20-01 <i>Beauveria bassiana</i> 931	84-04-03-1B <i>Beauveria bassiana</i> 1460	168 <i>Beauveria bassiana</i> 1966
82-12-20-02 <i>Metarhizium anisopliae</i> sensu lato 932	84-04-03-1C <i>Beauveria bassiana</i> 1475	17 <i>Purpureocillium lilacinum</i> 723
82-2-15-01 <i>Beauveria bassiana</i> 752	84-04-03-1E <i>Beauveria bassiana</i> 1459	174 <i>Metarhizium anisopliae</i> sensu lato 1885
82-2-15-03 <i>Metarhizium anisopliae</i> sensu lato 760	84-04-03-6A <i>Beauveria bassiana</i> 1456	176 <i>Purpureocillium lilacinum</i> 1951
82-2-15-04 <i>Metarhizium robertsii</i> 724	84-04-03-6B <i>Beauveria bassiana</i> 1464	179 <i>Beauveria bassiana</i> 1954
82-2-15-05 <i>Isaria amoenerosea</i> 744	84-04-25-1 <i>Beauveria bassiana</i> 1476	18 <i>Isaria fumosorosea</i> 722
82-2-3-01 <i>Beauveria bassiana</i> 739	84-3-12 <i>Beauveria bassiana</i> 1971	181 <i>Beauveria bassiana</i> 1956
82-2-9-01 <i>Beauveria bassiana</i> 738	85-05-02 <i>Purpureocillium lilacinum</i> 1951	182 <i>Isaria farinosa</i> 1957
82-3-1-03 <i>Beauveria bassiana</i> 758	85-7-22 <i>Beauveria bassiana</i> 1956	183 <i>Beauveria bassiana</i> 2075
82-3-23-01 <i>Beauveria bassiana</i> 757	85-7-22-1 <i>Isaria farinosa</i> 1957	184 <i>Metarhizium anisopliae</i> sensu lato 1958
82-3-24-01 <i>Beauveria bassiana</i> 753	85-7-23-1 <i>Beauveria bassiana</i> 1954	187 <i>Beauveria bassiana</i> 1961
82-4-29-01 <i>Beauveria bassiana</i> 785	85-7-24 <i>Beauveria bassiana</i> 2075	19 <i>Isaria amoenerosea</i> 741
82-4-30-01C <i>Beauveria bassiana</i> 784	85-7-24-1 <i>Metarhizium anisopliae</i> sensu lato 1958	194 <i>Metarhizium anisopliae</i> sensu lato 2076
82-4-30-01D <i>Beauveria bassiana</i> 804	85-7-24-4 <i>Beauveria bassiana</i> 1961	195 <i>Metarhizium anisopliae</i> sensu lato 2077
82-4-4-01 <i>Beauveria bassiana</i> 754	86-06-02-2 <i>Isaria fumosorosea</i> 2217	198 <i>Beauveria bassiana</i> 2079
82-5-3-01 <i>Beauveria bassiana</i> 805	86-06-05-1 <i>Isaria fumosorosea</i> 2221	212 <i>Isaria fumosorosea</i> 2216
82-5-3-03A <i>Beauveria bassiana</i> 788	86-06-05-1 <i>Isaria fumosorosea</i> 2216	213 <i>Isaria fumosorosea</i> 2217
82-5-3-03B <i>Beauveria bassiana</i> 786	86-06-05-3 <i>Isaria fumosorosea</i> 2219	214 <i>Pochonia chlamydosporia</i> var. <i>chlamydosporia</i> 2218
82-5-6-01 <i>Beauveria bassiana</i> 787	86-06-05-4 <i>Isaria amoenerosea</i> 2220	215 <i>Isaria fumosorosea</i> 2219
82-5-6-02 <i>Beauveria bassiana</i> 783	86-06-05-6 <i>Pochonia chlamydosporia</i> var. <i>chlamydosporia</i> 2218	216 <i>Isaria amoenerosea</i> 2220
	88-5-6 <i>Beauveria bassiana</i> 2625	217 <i>Isaria fumosorosea</i> 2221
	88-5-6A <i>Beauveria bassiana</i> 2626	
	88-5-6B <i>Metarhizium anisopliae</i> sensu lato 2635	221 <i>Beauveria bassiana</i> 2511

Alternate Collections

222 <i>Beauveria bassiana</i> 2520	87 <i>Beauveria bassiana</i> 946	FI-0210 <i>Beauveria bassiana</i> 7853
224 <i>Metarhizium anisopliae</i> sensu stricto 2518	88 <i>Beauveria bassiana</i> 947	FI-0211 <i>Metarhizium anisopliae</i> sensu lato 7863
227 <i>Beauveria bassiana</i> 2515	89 <i>Beauveria bassiana</i> 948	FI-0214 <i>Metarhizium anisopliae</i> sensu lato 7864
229 <i>Beauveria bassiana</i> 2509	9 <i>Beauveria bassiana</i> 734	FI-0218 <i>Metarhizium anisopliae</i> sensu lato 7865
23 Beauveria bassiana 738	90 <i>Beauveria bassiana</i> 949	FI-0295 <i>Metarhizium pingshaense</i> 7417
230 Beauveria bassiana 2638	91 <i>Beauveria bassiana</i> 950	FI-0358 <i>Metarhizium robertsii</i> 7424
230 Beauveria bassiana 2559	92 <i>Beauveria bassiana</i> 951	FI-0377 <i>Metarhizium anisopliae</i> sensu lato 7931
236A <i>Metarhizium anisopliae</i> sensu lato 2513	93 <i>Beauveria bassiana</i> 952	FI-0378 <i>Metarhizium anisopliae</i> sensu lato 7932
236B <i>Metarhizium robertsii</i> 2514	95 <i>Beauveria bassiana</i> 982	FI-0380 <i>Metarhizium anisopliae</i> sensu lato 7933
237 <i>Beauveria bassiana</i> 2512	98 <i>Beauveria bassiana</i> 953	FI-0381 <i>Metarhizium anisopliae</i> sensu lato 7934
240 <i>Beauveria bassiana</i> 2625	99 <i>Metarhizium anisopliae</i> sensu lato 954	FI-0382 <i>Metarhizium anisopliae</i> sensu lato 7935
241 <i>Beauveria bassiana</i> 2626		FI-0383 <i>Metarhizium anisopliae</i> sensu lato 7936
25 <i>Metarhizium robertsii</i> 724		FI-0396 <i>Metarhizium anisopliae</i> sensu lato 8499
253 <i>Metarhizium anisopliae</i> sensu lato 2635		FI-0454 <i>Metarhizium anisopliae</i> sensu lato 8734
26 <i>Isaria amoenerosea</i> 744		FI-0522 <i>Metarhizium anisopliae</i> sensu lato 8500
27 <i>Beauveria bassiana</i> 739		FI-0529 <i>Metarhizium anisopliae</i> sensu lato 8501
270 <i>Beauveria bassiana</i> 2938		FI-0570 <i>Beauveria bassiana</i> 8065
272 <i>Metarhizium anisopliae</i> sensu lato 2941		FI-0658 <i>Metarhizium anisopliae</i> sensu lato 8098
273 <i>Purpureocillium lilacinum</i> 2952		FI-0659 <i>Metarhizium anisopliae</i> sensu lato 8099
274 <i>Beauveria bassiana</i> 2942		FI-0700 <i>Metarhizium pingshaense</i> 7435
278 <i>Penicillium</i> sp. 2950		FI-0701 <i>Beauveria bassiana</i> 8077
281 <i>Beauveria bassiana</i> 2946		FI-0703 <i>Beauveria bassiana</i> 8078
29 <i>Beauveria bassiana</i> 758		FI-0705 <i>Beauveria bassiana</i> 8079
290 <i>Beauveria bassiana</i> 2945		FI-0804 <i>Metarhizium anisopliae</i> sensu lato 8543
31 <i>Metarhizium anisopliae</i> sensu lato 760		FI-0805 <i>Metarhizium anisopliae</i> sensu lato 8544
34 <i>Beauveria bassiana</i> 752		FI-0806 <i>Metarhizium anisopliae</i> sensu lato 8545
35 <i>Beauveria bassiana</i> 757		FI-0807 <i>Metarhizium anisopliae</i> sensu lato 8546
36 <i>Beauveria bassiana</i> 753		FI-0808 <i>Metarhizium anisopliae</i> sensu lato 8547
38 <i>Beauveria bassiana</i> 754		FI-0809 <i>Metarhizium anisopliae</i> sensu lato 8548
4 <i>Beauveria bassiana</i> 756		FI-0810 <i>Metarhizium anisopliae</i> sensu lato 8549
46 <i>Beauveria bassiana</i> 785		FI-0811 <i>Metarhizium anisopliae</i> sensu lato 8550
47 <i>Beauveria bassiana</i> 784		FI-0812 <i>Metarhizium anisopliae</i> sensu lato 8551
47(47?) <i>Beauveria bassiana</i> 3219		FI-0814 <i>Metarhizium anisopliae</i> sensu lato 8552
48 <i>Beauveria bassiana</i> 804		FI-0815 <i>Metarhizium anisopliae</i> sensu lato 8553
49 <i>Beauveria bassiana</i> 805		FI-0816 <i>Metarhizium anisopliae</i> sensu lato 8554
5 <i>Beauveria bassiana</i> 731		FI-0817 <i>Metarhizium anisopliae</i> sensu lato 8555
50 <i>Beauveria bassiana</i> 788		FI-0818 <i>Metarhizium anisopliae</i> sensu lato 8556
51 <i>Beauveria bassiana</i> 786		
58 <i>Beauveria bassiana</i> 787		
59 <i>Beauveria bassiana</i> 783		
6 <i>Beauveria bassiana</i> 732		
61 <i>Beauveria bassiana</i> 809		
62 <i>Metarhizium anisopliae</i> sensu lato 808		
63 <i>Beauveria bassiana</i> 928		
67 <i>Metarhizium anisopliae</i> sensu lato 929		
68 <i>Beauveria bassiana</i> 930		
69 <i>Beauveria bassiana</i> 931		
7 <i>Beauveria bassiana</i> 733		
70 <i>Metarhizium anisopliae</i> sensu lato 932		
72 <i>Beauveria bassiana</i> 934		
76 <i>Beauveria bassiana</i> 937		
77 <i>Beauveria bassiana</i> 938		
78 <i>Metarhizium anisopliae</i> sensu lato 939		
8 <i>Metarhizium anisopliae</i> sensu lato 725		
82 <i>Beauveria bassiana</i> 941		
83 <i>Beauveria bassiana</i> 942		
84 <i>Beauveria bassiana</i> 943		
CRI	35-79 <i>Metarhizium brunneum</i> 4228	
CSIRO		
	FI-0001 <i>Beauveria bassiana</i> 7813	
	FI-0012 <i>Metarhizium anisopliae</i> sensu lato 8492	
	FI-0014 <i>Metarhizium anisopliae</i> sensu lato 7814	
	FI-0018 <i>Beauveria bassiana</i> 8494	
	FI-0019 <i>Metarhizium anisopliae</i> sensu lato 8495	
	FI-0024 <i>Metarhizium anisopliae</i> sensu lato 7845	
	FI-0038 <i>Metarhizium anisopliae</i> sensu lato 7815	
	FI-0083 <i>Metarhizium anisopliae</i> sensu lato 7816	
	FI-0111 <i>Metarhizium anisopliae</i> sensu lato 7819	
	FI-0114 <i>Metarhizium pingshaense</i> 7410	
	FI-0126 <i>Metarhizium anisopliae</i> sensu lato 7824	
	FI-0143 <i>Metarhizium anisopliae</i> sensu lato 7825	
	FI-0144 <i>Metarhizium anisopliae</i> sensu lato 7826	
	FI-0147 <i>Metarhizium anisopliae</i> var. <i>lepidiotae</i> 8732	
	FI-0148 <i>Metarhizium anisopliae</i> sensu lato 7827	
	FI-0149 <i>Metarhizium anisopliae</i> sensu lato 7846	
	FI-0150 <i>Metarhizium anisopliae</i> sensu lato 7828	
	FI-0151 <i>Metarhizium anisopliae</i> sensu lato 7411	
	FI-0152 <i>Metarhizium lepidiotae</i> 7412	
	FI-0153 <i>Metarhizium anisopliae</i> sensu lato 8733	
	FI-0154 <i>Metarhizium anisopliae</i> sensu lato 7829	
	FI-0157 <i>Metarhizium anisopliae</i> sensu lato 7830	
	FI-0160 <i>Metarhizium anisopliae</i> sensu lato 7831	
	FI-0165 <i>Metarhizium anisopliae</i> sensu lato 7832	
	FI-0190 <i>Metarhizium anisopliae</i> sensu lato 7854	
	FI-0191 <i>Metarhizium anisopliae</i> sensu lato 7839	
	FI-0205 <i>Metarhizium anisopliae</i> sensu lato 7842	

FI-0819 <i>Metarhizium anisopliae</i> sensu lato 8557	FI-1012 <i>Metarhizium anisopliae</i> sensu lato 8743	FI-1314 <i>Metarhizium anisopliae</i> sensu lato 8845
FI-0821 <i>Metarhizium anisopliae</i> sensu lato 8559	FI-1040 <i>Metarhizium anisopliae</i> sensu lato 8744	FI-1316 <i>Metarhizium anisopliae</i> sensu lato 8847
FI-0868 <i>Metarhizium anisopliae</i> sensu lato 8610	FI-1041 <i>Metarhizium anisopliae</i> sensu lato 7452	FI-1320 <i>Metarhizium anisopliae</i> sensu lato 8848
FI-0870 <i>Metarhizium anisopliae</i> sensu lato 8563	FI-1042 <i>Metarhizium lepidiotae</i> 7488	FI-1321 <i>Metarhizium anisopliae</i> sensu lato 8849
FI-0871 <i>Metarhizium anisopliae</i> sensu lato 8564	FI-1042 <i>Metarhizium anisopliae</i> var. <i>lepidiotae</i> 7453	FI-1323 <i>Metarhizium anisopliae</i> sensu lato 8850
FI-0872 <i>Metarhizium anisopliae</i> sensu lato 8577	FI-1045 <i>Metarhizium anisopliae</i> sensu lato 10469	FI-1342 <i>Metarhizium</i> sp. 8851
FI-0873 <i>Metarhizium anisopliae</i> sensu lato 8565	FI-1081 <i>Metarhizium anisopliae</i> sensu lato 8745	FI-1345 <i>Metarhizium</i> sp. 8852
FI-0875 <i>Metarhizium anisopliae</i> sensu lato 8566	FI-1082 <i>Metarhizium anisopliae</i> sensu lato 8746	FI-1348 <i>Beauveria bassiana</i> 8853
FI-0877 <i>Metarhizium anisopliae</i> sensu lato 8567	FI-1083 <i>Metarhizium anisopliae</i> sensu lato 8747	FI-1349 <i>Beauveria bassiana</i> 8854
FI-0881 <i>Metarhizium anisopliae</i> sensu lato 8568	FI-1107 <i>Metarhizium anisopliae</i> sensu lato 8748	FI-1350 <i>Metarhizium anisopliae</i> sensu lato 7492
FI-0882 <i>Metarhizium anisopliae</i> sensu lato 8569	FI-1151 <i>Metarhizium anisopliae</i> sensu lato 8754	FI-1352 <i>Metarhizium</i> sp. 8855
FI-0894 <i>Metarhizium anisopliae</i> sensu lato 8576	FI-1152 <i>Metarhizium anisopliae</i> sensu lato 8755	FI-1353 <i>Metarhizium</i> sp. 8856
FI-0903 <i>Metarhizium anisopliae</i> sensu lato 8582	FI-1153 <i>Beauveria bassiana</i> 8756	FI-1354 <i>Metarhizium</i> sp. 8857
FI-0904 <i>Metarhizium anisopliae</i> sensu lato 8583	FI-1154 <i>Beauveria bassiana</i> 8757	FI-1358 <i>Metarhizium</i> sp. 7493
FI-0910 <i>Metarhizium anisopliae</i> sensu lato 8586	FI-1160 <i>Metarhizium anisopliae</i> sensu lato 8761	FI-1363 <i>Metarhizium anisopliae</i> sensu lato 7494
FI-0911 <i>Metarhizium robertsii</i> 7449	FI-1161 <i>Metarhizium anisopliae</i> sensu lato 8762	FI-1395 <i>Metarhizium</i> sp. 7495
FI-0912 <i>Metarhizium anisopliae</i> sensu lato 7843	FI-1162 <i>Beauveria bassiana</i> 8763	FI-1402 <i>Metarhizium anisopliae</i> sensu lato 7496
FI-0913 <i>Metarhizium anisopliae</i> sensu lato 7844	FI-1163 <i>Metarhizium anisopliae</i> sensu lato 8764	FI-1410 <i>Metarhizium anisopliae</i> sensu lato 7498
FI-0920 <i>Metarhizium anisopliae</i> sensu lato 8592	FI-1228 <i>Metarhizium anisopliae</i> sensu lato 8828	FI-1412 <i>Metarhizium anisopliae</i> sensu lato 7499
FI-0947 <i>Metarhizium anisopliae</i> sensu lato 8615	FI-1240 <i>Metarhizium anisopliae</i> sensu lato 8765	FI-1414 <i>Metarhizium anisopliae</i> sensu lato 7500
FI-0948 <i>Metarhizium anisopliae</i> sensu lato 8616	FI-1241 <i>Metarhizium anisopliae</i> sensu lato 8766	FI-1425 <i>Metarhizium anisopliae</i> sensu lato 7504
FI-0950 <i>Metarhizium anisopliae</i> sensu lato 8617	FI-1242 <i>Metarhizium anisopliae</i> sensu lato 8829	FI-1449 <i>Metarhizium majus</i> 7505
FI-0951 <i>Metarhizium anisopliae</i> sensu lato 8618	FI-1244 <i>Metarhizium anisopliae</i> sensu lato 8893	FI-820 <i>Metarhizium anisopliae</i> sensu lato 8558
FI-0952 <i>Metarhizium anisopliae</i> sensu lato 8619	FI-1245 <i>Metarhizium anisopliae</i> sensu lato 8830	FI24 <i>Metarhizium brunneum</i> 346
FI-0953 <i>Metarhizium anisopliae</i> sensu lato 8620	FI-1246 <i>Metarhizium anisopliae</i> sensu lato 8831	FI49 <i>Beauveria bassiana</i> 325
FI-0954 <i>Metarhizium anisopliae</i> sensu lato 8621	FI-1247 <i>Metarhizium anisopliae</i> sensu lato 8767	FI55 <i>Metarhizium brunneum</i> 472
FI-0976 <i>Metarhizium anisopliae</i> sensu stricto 7450	FI-1249 <i>Metarhizium anisopliae</i> sensu lato 8832	
FI-0993 <i>Metarhizium anisopliae</i> sensu lato 7451	FI-1256 <i>Metarhizium anisopliae</i> sensu lato 8833	
FI-1002 <i>Metarhizium flavoviride</i> 8737	FI-1257 <i>Metarhizium anisopliae</i> sensu lato 8834	
FI-1007 <i>Metarhizium anisopliae</i> sensu lato 8738	FI-1261 <i>Beauveria bassiana</i> 8835	
FI-1008 <i>Metarhizium anisopliae</i> sensu lato 8739	FI-1262 <i>Beauveria bassiana</i> 8836	
FI-1009 <i>Metarhizium anisopliae</i> sensu lato 8740	FI-1263 <i>Metarhizium anisopliae</i> sensu lato 8837	
FI-1010 <i>Metarhizium anisopliae</i> sensu lato 8741	FI-1264 <i>Metarhizium anisopliae</i> sensu lato 8838	
FI-1011 <i>Metarhizium anisopliae</i> sensu lato 8742	FI-1267 <i>Metarhizium anisopliae</i> sensu lato 8839	
	FI-1275 <i>Isaria fumosorosea</i> 8840	
	FI-1296 <i>Isaria fumosorosea</i> 8892	
	FI-1313 <i>Metarhizium anisopliae</i> sensu lato 8844	

Dalbello, Gustavo

#7 *Beauveria bassiana* 5501

DAR

29768 *Metarhizium brunneum* 472

DAT

- 1 *Metarhizium frigidum* 4124
- 10 *Metarhizium brunneum* 4131
- 11 *Metarhizium anisopliae* sensu lato 4132
- 12 *Metarhizium anisopliae* sensu lato 4133
- 120 *Metarhizium brunneum* 4228
- 13 *Metarhizium anisopliae* sensu lato 4236
- 130 *Metarhizium flavoviride* var. *flavoviride* 4719
- 133 *Metarhizium flavoviride* var. *flavoviride* 4720
- 14 *Metarhizium anisopliae* sensu lato 4134
- 140 *Beauveria bassiana* 4721
- 141 *Metarhizium anisopliae* sensu lato 4722
- 142 *Beauveria amorpha* 4149
- 143 *Beauveria bassiana* 4274

Alternate Collections

15 <i>Beauveria bassiana</i> 4135	516 <i>Metarhizium anisopliae</i> sensu lato	205 <i>Metarhizium anisopliae</i> sensu lato
17 <i>Beauveria bassiana</i> 4136	4574	8779
19 <i>Metarhizium anisopliae</i> sensu lato	7 <i>Beauveria bassiana</i> 4130	206 <i>Metarhizium anisopliae</i> sensu lato
4137		8780
2 <i>Metarhizium anisopliae</i> sensu lato		207 <i>Metarhizium anisopliae</i> sensu lato
4125	29230 <i>Lecanicillium pissodis</i> 8055	8943
20 <i>Metarhizium anisopliae</i> sensu lato	29231 <i>Lecanicillium pissodis</i> 8056	209 <i>Metarhizium anisopliae</i> sensu lato
4138	29232 <i>Lecanicillium pissodis</i> 8057	8781
24 <i>Metarhizium anisopliae</i> sensu lato		210 <i>Metarhizium anisopliae</i> sensu lato
4139		8944
25 Unidentified sp. 4140		211 <i>Metarhizium anisopliae</i> sensu lato
26 Sterile mycelium 4243		8782
28 <i>Metarhizium anisopliae</i> sensu lato		212 <i>Metarhizium anisopliae</i> sensu lato
4716		8945
29 <i>Metarhizium anisopliae</i> sensu lato		213 <i>Purpureocillium lilacinum</i> 8919
4141		215 <i>Metarhizium anisopliae</i> sensu lato
33 <i>Metarhizium anisopliae</i> sensu lato		8783
4346		216 <i>Metarhizium anisopliae</i> sensu lato
34 <i>Metarhizium anisopliae</i> sensu lato		8784
4239		217 <i>Metarhizium anisopliae</i> sensu lato
36 <i>Metarhizium anisopliae</i> sensu lato		8946
4142		218 <i>Metarhizium anisopliae</i> sensu lato
433 <i>Metarhizium anisopliae</i> sensu lato		8785
4677		220 <i>Metarhizium anisopliae</i> sensu lato
473 <i>Metarhizium guizhouense</i> 4604		8786
478 <i>Metarhizium anisopliae</i> sensu lato		221 <i>Metarhizium anisopliae</i> sensu lato
4582		8787
479 <i>Metarhizium anisopliae</i> sensu lato		222 <i>Metarhizium anisopliae</i> sensu lato
4572		8788
480 <i>Metarhizium pingshaense</i> 4610		223 <i>Metarhizium anisopliae</i> sensu lato
481 <i>Metarhizium anisopliae</i> sensu lato		8789
4557		224 <i>Metarhizium anisopliae</i> sensu lato
483 <i>Metarhizium anisopliae</i> sensu lato		8790
4333		225 <i>Metarhizium anisopliae</i> sensu lato
484 <i>Metarhizium anisopliae</i> sensu lato		8791
4335		227 <i>Metarhizium anisopliae</i> sensu lato
485 <i>Metarhizium anisopliae</i> sensu lato		8792
4339		228 <i>Metarhizium anisopliae</i> sensu lato
486 <i>Metarhizium anisopliae</i> sensu lato		8793
4338		229 <i>Metarhizium anisopliae</i> sensu lato
487 <i>Metarhizium anisopliae</i> sensu lato		8794
4341		230 <i>Metarhizium anisopliae</i> sensu lato
488 <i>Metarhizium anisopliae</i> sensu lato		8858
4336		231 <i>Metarhizium anisopliae</i> sensu lato
489 <i>Metarhizium anisopliae</i> sensu lato		8859
4340		232 <i>Metarhizium anisopliae</i> sensu lato
490 <i>Metarhizium anisopliae</i> sensu lato		8947
4337		233 <i>Metarhizium anisopliae</i> sensu lato
491 <i>Metarhizium pingshaense</i> 4342		8948
492 <i>Metarhizium anisopliae</i> sensu lato		234 <i>Metarhizium anisopliae</i> sensu lato
4334		8860
493 <i>Metarhizium anisopliae</i> sensu lato		235 <i>Metarhizium anisopliae</i> sensu lato
4290		8861
507 <i>Metarhizium anisopliae</i> sensu lato		236 <i>Metarhizium anisopliae</i> sensu lato
4777		8862
510 <i>Metarhizium anisopliae</i> sensu lato		237 <i>Metarhizium anisopliae</i> sensu lato
4568		8863
511 <i>Metarhizium anisopliae</i> sensu lato		238 <i>Metarhizium anisopliae</i> sensu lato
4778		8864
512 <i>Metarhizium anisopliae</i> sensu lato		239 <i>Metarhizium anisopliae</i> sensu lato
4779		8865
513 <i>Metarhizium anisopliae</i> sensu lato		240 <i>Metarhizium anisopliae</i> sensu lato
4780		8866
514 <i>Metarhizium majus</i> 4566		241 <i>Metarhizium anisopliae</i> sensu lato
515 <i>Metarhizium majus</i> 4601	8778	8867

246 <i>Metarhizium anisopliae</i> sensu lato 8894	337 <i>Metarhizium anisopliae</i> sensu lato 8868	Forschler, Brian T. RF-2 <i>Beauveria bassiana</i> 2270 RF-3 <i>Beauveria brongniartii</i> 2271
247 <i>Metarhizium anisopliae</i> sensu lato 8895	338 <i>Metarhizium anisopliae</i> sensu lato 8869	FPMI 695 <i>Conidiobolus osmodes</i> 79 757 <i>Paecilomyces canadensis</i> 984 951 <i>Zoophthora phytonomi</i> 113
248 <i>Metarhizium anisopliae</i> sensu lato 8896	340 <i>Metarhizium anisopliae</i> sensu lato 8870	G/Tsadik, Zaf 5/03-BB <i>Aspergillus flavus</i> 6454
249 <i>Metarhizium anisopliae</i> sensu lato 8897	341 <i>Metarhizium anisopliae</i> sensu lato 8954	GCRI 134-82 <i>Metarhizium guizhouense</i> 977 148-82 <i>Metarhizium majus</i> 978 64-82 <i>Beauveria brongniartii</i> 979
251 <i>Metarhizium anisopliae</i> sensu lato 8898	342 <i>Metarhizium anisopliae</i> sensu lato 8871	Geden, Christopher J. P 89 <i>Beauveria bassiana</i> 3112
253 <i>Isaria farinosa</i> 8917	343 <i>Metarhizium anisopliae</i> sensu lato 8872	Ghazavi, Mehran 1 <i>Beauveria bassiana</i> 6903
254 <i>Metarhizium anisopliae</i> sensu lato 8899	345 <i>Metarhizium anisopliae</i> sensu lato 8873	Goettel, Mark S. LRC 172 <i>Tolypocladium cylindrosporum</i> 7456
256 <i>Metarhizium anisopliae</i> sensu lato 8900	346 <i>Metarhizium anisopliae</i> sensu lato 8955	Gopalakrishnan, C. 31 <i>Beauveria brongniartii</i> 2660
258 <i>Metarhizium anisopliae</i> sensu lato 8901	347 <i>Metarhizium anisopliae</i> sensu lato 8874	Gouli, Svetlana DV-05-1 <i>Beauveria bassiana</i> 9297 DV-05-11 <i>Beauveria bassiana</i> 9299 DV-05-17 <i>Beauveria bassiana</i> 9301 GA-103 <i>Paecilomyces</i> sp. 5193 GA-94 <i>Paecilomyces</i> sp. 5184 GA-96 <i>Beauveria</i> sp. 5186 GA-98 <i>Mixed Culture</i> sp. 5188
259 <i>Metarhizium anisopliae</i> sensu lato 8902	348 <i>Metarhizium anisopliae</i> sensu lato 8875	Gouli, Vladimir DV-05-15 <i>Beauveria bassiana</i> 9300 DV-05-22 <i>Beauveria bassiana</i> 9302 DV-05-7 <i>Beauveria bassiana</i> 9298
260 <i>Metarhizium anisopliae</i> sensu lato 8949	349 <i>Metarhizium anisopliae</i> sensu lato 8876	Gutierrez Samperio, Jorge 21 <i>Metarhizium anisopliae</i> sensu lato 3305 22 <i>Metarhizium anisopliae</i> sensu lato 3306 24 <i>Metarhizium anisopliae</i> sensu lato 3308 25 <i>Beauveria bassiana</i> 3309 26 <i>Beauveria bassiana</i> 3310 27 <i>Beauveria bassiana</i> 3311 3 <i>Beauveria bassiana</i> 3287
265 <i>Metarhizium anisopliae</i> sensu lato 8903	350 <i>Metarhizium anisopliae</i> sensu lato 8877	Hajek, Ann E. 02 NY 5-6-1 <i>Isaria farinosa</i> 8411 1 <i>Beauveria brongniartii</i> 6213 2A <i>Beauveria brongniartii</i> 6214 3A <i>Beauveria brongniartii</i> 6215 5B <i>Beauveria bassiana</i> 6216 6B <i>Beauveria bassiana</i> 6217 BFMS <i>Beauveria bassiana</i> 3667 FS6 <i>Metarhizium anisopliae</i> sensu lato 8415 Q2k953 <i>Beauveria bassiana</i> 8412 ST2 <i>Beauveria bassiana</i> 8413 VD-1 <i>Metarhizium anisopliae</i> sensu lato 7234
267 <i>Purpureocillium lilacinum</i> 8920	352 <i>Metarhizium anisopliae</i> sensu lato 8878	
268 <i>Purpureocillium lilacinum</i> 8921	353 <i>Metarhizium anisopliae</i> sensu lato 8879	
270 <i>Metarhizium anisopliae</i> sensu lato 8904	354 <i>Metarhizium anisopliae</i> sensu lato 8880	
273 <i>Metarhizium anisopliae</i> sensu lato 8905	355 <i>Metarhizium anisopliae</i> sensu lato 8881	
276 <i>Metarhizium anisopliae</i> sensu lato 9235	356 <i>Metarhizium anisopliae</i> sensu lato 8882	
277 <i>Metarhizium anisopliae</i> sensu lato 8906	357 <i>Metarhizium anisopliae</i> sensu lato 8883	
280 <i>Purpureocillium lilacinum</i> 8922	358 <i>Metarhizium anisopliae</i> sensu lato 8884	
281 <i>Lecanicillium muscarium</i> 8923	359 <i>Metarhizium anisopliae</i> sensu lato 8885	
283 <i>Metarhizium anisopliae</i> sensu lato 8907	360 <i>Metarhizium anisopliae</i> sensu lato 8886	
284 <i>Metarhizium anisopliae</i> sensu lato 8908	361 <i>Metarhizium anisopliae</i> sensu lato 8887	
285 <i>Metarhizium anisopliae</i> sensu lato 8950	362 <i>Metarhizium anisopliae</i> sensu lato 8912	
286 <i>Metarhizium anisopliae</i> sensu lato 8909	363 <i>Metarhizium anisopliae</i> sensu lato 8913	
287 <i>Metarhizium anisopliae</i> sensu lato 8910	364 <i>Metarhizium anisopliae</i> sensu lato 8914	
288 <i>Metarhizium anisopliae</i> sensu lato 8911	365 <i>Metarhizium anisopliae</i> sensu lato 8915	
327 <i>Beauveria bassiana</i> 10350	366 <i>Metarhizium anisopliae</i> sensu lato 8916	
328 <i>Metarhizium anisopliae</i> sensu lato 9236	Evans, Harry C. Ro 596 <i>Beauveria caledonica</i> 2251	
329 <i>Metarhizium anisopliae</i> sensu lato 8951	Fermone Corporation FCI-7744 <i>Beauveria bassiana</i> 7795 FCI-7744 <i>Beauveria bassiana</i> 3097	
329 <i>Metarhizium anisopliae</i> sensu lato 8795	Ferron, P. 6 <i>Beauveria brongniartii</i> 617	
330 <i>Metarhizium anisopliae</i> sensu lato 8796		
331 <i>Metarhizium anisopliae</i> sensu lato 8797		
333 <i>Metarhizium anisopliae</i> sensu lato 8798		
334 <i>Metarhizium anisopliae</i> sensu lato 8799		
335 <i>Metarhizium anisopliae</i> sensu lato 8952		
336 <i>Metarhizium anisopliae</i> sensu lato 8953		

Alternate Collections

- VD3 *Metarhizium anisopliae* sensu lato
8416
- VD7 *Metarhizium anisopliae* sensu lato
8417
- VD8 *Metarhizium anisopliae* sensu lato
8418
- VD9 *Metarhizium anisopliae* sensu lato
8419
- WU19 *Metarhizium anisopliae* sensu
lato 8420
- WU50 *Beauveria bassiana* 8414
- WU6 *Scopulariopsis* sp. 8421
- Hanula, James**
- C-1 *Verticillium insectorum* 3715
- C-2 *Beauveria bassiana* 3716
- C-3 *Beauveria bassiana* 3717
- C-4 *Cordyceps* sp. 3718
- C-5 Unidentified sp. 3714
- C-5 *Metarhizium anisopliae* sensu lato
3713
- W-2 Unidentified sp. 3719
- Hodge, Kathie T.**
- kth30A *Tolyphocladium inflatum* 4877
- kth30B *Tolyphocladium inflatum* 4878
- kth30C *Tolyphocladium inflatum* 4879
- kth30D *Tolyphocladium inflatum* 4880
- kth30E *Tolyphocladium inflatum* 4881
- kth30F *Tolyphocladium inflatum* 4882
- kth30G *Tolyphocladium inflatum* 4883
- kth30H *Tolyphocladium inflatum* 4884
- kth30I *Tolyphocladium inflatum* 4885
- kth30J *Tolyphocladium inflatum* 4886
- kth30K *Tolyphocladium inflatum* 4887
- kth30L *Tolyphocladium inflatum* 4888
- kth30M *Tolyphocladium inflatum* 4889
- kth30N *Tolyphocladium inflatum* 4890
- kth30O *Tolyphocladium inflatum* 4891
- kth30P *Tolyphocladium inflatum* 4892
- kth30Q *Tolyphocladium inflatum* 4893
- kth30R *Tolyphocladium inflatum* 4894
- kth30S *Tolyphocladium inflatum* 4895
- kth30T *Tolyphocladium inflatum* 4896
- kth30U *Tolyphocladium inflatum* 4897
- kth30V *Tolyphocladium inflatum* 4898
- Holdom, David G.**
- 900118-01 *Paraisaria dubia* 5764
- Hollingsworth, Robert G.**
- H2 *Beauveria bassiana* 8705
- Hostetter, Donald L.**
- T090 *Beauveria bassiana* 5148
- T100 *Metarhizium robertsii* 5149
- T103 *Beauveria bassiana* 5150
- Humber, Richard A.**
- 2A *Fusarium* sp. 7063
- IMI**
- 012944 *Beauveria bassiana* 7758
- 014746 *Metarhizium brunneum* 2107
- 152222 *Metarhizium guizhouense* 3603
- 205309 *Synnematium jonesii* 5664
- 228343 *Beauveria malawiensis* 7760
- 232818 *Beauveria brongniartii* 7761
- 298059 *Metarhizium pingshaense* 3604
- 327906 *Beauveria bassiana* 2693
- 327908 *Beauveria bassiana* 2685
- 327909 *Beauveria bassiana* 2686
- 327910 *Beauveria bassiana* 2688
- 328059 *Beauveria varroae* 2694
- 329064 *Beauveria bassiana* 2689
- 329065 *Beauveria bassiana* 2690
- 329066 *Beauveria bassiana* 2691
- 329067 *Beauveria bassiana* 2692
- 330194 *Beauveria bassiana* 2687
- 358840 *Beauveria bassiana* 7763
- 386243 *Beauveria bassiana* 7764
- 386367 *Beauveria bassiana* 7774
- 386368 *Beauveria bassiana* 7773
- 389521 *Beauveria bassiana* 7769
- I91-613 *Metarhizium robertsii* 3608
- I91-613 *Metarhizium robertsii* 2575
- INRA**
- Bb-142 *Beauveria bassiana* 1185
- Bb-169 *Beauveria bassiana* 1491
- Bb-195 *Beauveria bassiana* 1186
- Ma-181 *Metarhizium anisopliae* sensu
lato 3148
- Ma-51 *Metarhizium anisopliae* var. *ma-*
jus 3145
- Mf-88 *Metarhizium flavoviride* 2024
- Mf-88 *Metarhizium flavoviride* var.
flavoviride 1184
- JABB of the Carolinas Inc.**
- NC2 *Beauveria bassiana* 7941
- Jones, Wendy E.**
- SHB *Beauveria bassiana* 3040
- Keller, Siegfried**
- 117 *Beauveria brongniartii* 1067
- 118 *Beauveria brongniartii* 1068
- 119 *Beauveria brongniartii* 1069
- 120 *Beauveria brongniartii* 1070
- 125 *Beauveria brongniartii* 1071
- 126 *Beauveria brongniartii* 1072
- 131 *Beauveria brongniartii* 1076
- 134 *Beauveria brongniartii* 1077
- 425 *Pandora blunckii* 917
- 426 *Pandora blunckii* 915
- 430 *Pandora blunckii* 920
- 48 *Metarhizium anisopliae* sensu lato
1377
- 48 *Zoophthora anglica* 396
- 490 *Conidiobolus coronatus* 1572
- 491 *Conidiobolus coronatus* 1573
- 493 *Conidiobolus coronatus* 1574
- 494 *Conidiobolus coronatus* 1575
- 500 *Metarhizium anisopliae* sensu lato
7532
- 514 *Pandora blunckii* 1715
- 515 *Pandora blunckii* 1716
- 516 *Pandora blunckii* 1717
- Kenneth, Robert G.**
- 3 *Conidiobolus osmodes* 79
- 3080 *Conidiobolus osmodes* 79
- 3081 *Conidiobolus* sp. 80
- 3082 *Conidiobolus* sp. 81
- 3085 *Zoophthora phytonomi* 113
- 3095 *Zoophthora phytonomi* 191
- 3133 *Zoophthora phytonomi* 192
- 3178 *Zoophthora phytonomi* 202
- C.o. 10 *Conidiobolus* sp. 81
- C.o. 15 *Conidiobolus* sp. 80
- E.p. 2 *Zoophthora phytonomi* 191
- King, Brian C.**
- 52 *Beauveria bassiana* 7972
- 77 *Beauveria bassiana* 7978
- Klingen, Ingeborg**
- HAG.99 *Metarhizium brunneum* 6477
- NCRI 2/01/Bb *Beauveria bassiana* 6900
- NCRI 2/01/Ma *Metarhizium anisopliae*
sensu lato 6901
- Kope, Harry H.**
- PFC 10 *Lecanicillium muscarium* 8051
- PFC 11 *Lecanicillium muscarium* 8052
- PFC 12 *Lecanicillium muscarium* 8053
- PFC 15 *Lecanicillium muscarium* 8054
- PFC 17 *Lecanicillium pissodis* 8055
- PFC 18 *Lecanicillium pissodis* 8056
- PFC 19 *Lecanicillium pissodis* 8057
- PFC 5 *Lecanicillium muscarium* 8048
- PFC 6 *Lecanicillium muscarium* 8049
- PFC 9 *Lecanicillium muscarium* 8050
- Krueger, Steve V.**
- MaEC1 *Metarhizium robertsii* 3108
- MaEC2 *Metarhizium robertsii* 3211
- MaJB1 *Metarhizium anisopliae* sensu
lato 3330
- MaJB10 *Metarhizium anisopliae* sensu
lato 3337
- MaJB11 *Metarhizium anisopliae* sensu
lato 3338
- MaJB12 *Metarhizium anisopliae* sensu
lato 3339
- MaJB13 *Metarhizium anisopliae* sensu
lato 3340
- MaJB2 *Metarhizium anisopliae* sensu
lato 3331
- MaJB3 *Metarhizium anisopliae* sensu
lato 3332

MaJB6 <i>Metarhizium anisopliae</i> sensu lato 3333	95064 <i>Beauveria bassiana</i> 5072	MF-217 <i>Beauveria</i> sp. 8127
MaJB7 <i>Metarhizium anisopliae</i> sensu lato 3334	95065 <i>Isaria farinosa</i> 5073	MF-218 <i>Beauveria</i> sp. 8128
MaJB8 <i>Metarhizium anisopliae</i> sensu lato 3335	95066 <i>Isaria farinosa</i> 5074	MF-219 <i>Beauveria</i> sp. 8129
MaJB9 <i>Metarhizium anisopliae</i> sensu lato 3336	95067 <i>Isaria farinosa</i> 5075	MF-220 <i>Beauveria</i> sp. 8130
MF-Ec Unidentified / Hyphomycetes 2999	95069 <i>Isaria farinosa</i> 5080	MF-221 <i>Fusarium</i> sp. 8131
	96001 Unidentified / Hyphomycetes 5223	MF-222 <i>Beauveria</i> sp. 8132
	96002 Unidentified / Hyphomycetes 5224	MF-223 <i>Beauveria</i> sp. 8133
	96003 Unidentified / Hyphomycetes 5225	MF-224 <i>Beauveria</i> sp. 8134
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92140 Unidentified sp. 3841	96005 Unidentified / Hyphomycetes 5227	MF-226 <i>Beauveria</i> sp. 8136
92141 <i>Metarhizium brunneum</i> 3864	96015 <i>Beauveria brongniartii</i> 5355	MF-227 <i>Beauveria</i> sp. 8137
93017 Unidentified sp. 3980	96016 <i>Beauveria brongniartii</i> 5356	MF-228 <i>Beauveria</i> sp. 8138
93038 <i>Beauveria bassiana</i> 4001	96017 <i>Beauveria brongniartii</i> 5357	MF-229 <i>Beauveria</i> sp. 8139
94007 <i>Isaria amoenerosea</i> 4097	96018 <i>Beauveria brongniartii</i> 5358	MF-231 <i>Beauveria</i> sp. 8140
94127 <i>Beauveria brongniartii</i> 4458	96019 <i>Beauveria brongniartii</i> 5359	MF-232 <i>Beauveria</i> sp. 8141
94131 <i>Beauveria brongniartii</i> 4389	96020 <i>Beauveria brongniartii</i> 5360	MF-233 <i>Isaria fumosorosea</i> 8142
94132 <i>Beauveria</i> sp. 4390	96021 <i>Beauveria brongniartii</i> 5361	MF-234 <i>Beauveria</i> sp. 8143
94133 <i>Beauveria</i> sp. 4391	96022 <i>Beauveria brongniartii</i> 5362	MF-235 <i>Beauveria</i> sp. 8144
94134 <i>Beauveria</i> sp. 4392	96023 <i>Beauveria brongniartii</i> 5363	MF-236 <i>Beauveria</i> sp. 8145
94135 <i>Beauveria asiatica</i> 4384	96024 <i>Beauveria brongniartii</i> 5364	MF-237 <i>Beauveria</i> sp. 8146
94136 <i>Beauveria brongniartii</i> 4385	YARL 011219-10 <i>Metarhizium anisopliae</i> sensu lato 7006	MF-238 <i>Beauveria</i> sp. 8147
94137 <i>Beauveria brongniartii</i> 4386	YARL 011219-11 <i>Metarhizium anisopliae</i> sensu lato 7007	MF-239 <i>Beauveria</i> sp. 8148
94138 Mixed Culture sp. 4387	YARL 011219-14 <i>Metarhizium anisopliae</i> sensu lato 7008	MF-240 <i>Beauveria</i> sp. 8149
94139 <i>Beauveria brongniartii</i> 4388	YARL 011219-15 <i>Metarhizium anisopliae</i> sensu lato 7009	MF-241 <i>Beauveria</i> sp. 8150
94140 <i>Beauveria bassiana</i> 4382	YARL 011219-7 <i>Metarhizium anisopliae</i> sensu lato 7004	MF-242 <i>Beauveria</i> sp. 8151
94141 <i>Beauveria brongniartii</i> 4380	YARL 011219-9 <i>Metarhizium anisopliae</i> sensu lato 7005	MF-243 <i>Beauveria</i> sp. 8152
94142 <i>Beauveria brongniartii</i> 4381	YARL 020128-1 <i>Metarhizium anisopliae</i> sensu lato 7000	MF-244 <i>Beauveria</i> sp. 8153
94143 <i>Beauveria brongniartii</i> 4465	YARL 020128-2 <i>Metarhizium anisopliae</i> sensu lato 7001	MF-245 <i>Beauveria</i> sp. 8154
94144 <i>Beauveria brongniartii</i> 4466	YARL 020128-3 <i>Metarhizium anisopliae</i> sensu lato 7002	MF-246 Unidentified / Hyphomycetes 8155
94145 <i>Beauveria brongniartii</i> 4467	YARL 020128-4 <i>Metarhizium anisopliae</i> sensu lato 7003	MF-247 <i>Beauveria</i> sp. 8156
94146 <i>Beauveria brongniartii</i> 4468		MF-248 <i>Lecanicillium muscarium</i> 8157
94147 <i>Beauveria brongniartii</i> 4469		MF-249 <i>Beauveria</i> sp. 8158
94148 <i>Beauveria brongniartii</i> 4470		MF-250 <i>Beauveria</i> sp. 8159
94149 <i>Beauveria brongniartii</i> 4471		MF-251 <i>Beauveria</i> sp. 8160
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94154 <i>Beauveria brongniartii</i> 4476		MF-257 <i>Lecanicillium muscarium</i> 8165
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 58 *Beauveria bassiana* 1510
 61 *Isaria farinosa* 1507
 70 *Lecanicillium lecanii* 1505
 71 *Isaria fumosorosea* 1506
 75 *Beauveria bassiana* 1511
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 A-1 *Metarhizium anisopliae* sensu lato
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 Mada *Metarhizium pingshaense* 5197
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 C-7 *Beauveria bassiana* 3534
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- Parker, Bruce L.**
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AVRDC 0154B <i>Metarhizium anisopliae</i> sensu lato 8941	AVRDC 0382B <i>Metarhizium anisopliae</i> sensu lato 8868	AVRDC 0462B <i>Metarhizium anisopliae</i> sensu lato 8913
AVRDC 0166B <i>Metarhizium anisopliae</i> sensu lato 8942	AVRDC 0383B <i>Metarhizium anisopliae</i> sensu lato 8859	AVRDC 0465B <i>Metarhizium anisopliae</i> sensu lato 8914
AVRDC 0168B <i>Metarhizium anisopliae</i> sensu lato 8799	AVRDC 0384B <i>Metarhizium anisopliae</i> sensu lato 8869	AVRDC 0467B <i>Metarhizium anisopliae</i> sensu lato 8894
AVRDC 0184B <i>Metarhizium anisopliae</i> sensu lato 8952	AVRDC 0385B <i>Metarhizium anisopliae</i> sensu lato 8947	AVRDC 0468B <i>Metarhizium anisopliae</i> sensu lato 8895
AVRDC 0186B <i>Metarhizium anisopliae</i> sensu lato 8953	AVRDC 0388B <i>Metarhizium anisopliae</i> sensu lato 8870	AVRDC 0469B <i>Metarhizium anisopliae</i> sensu lato 8896
AVRDC 0193B <i>Metarhizium anisopliae</i> sensu lato 8951	AVRDC 0389B <i>Metarhizium anisopliae</i> sensu lato 8948	AVRDC 0470B <i>Metarhizium anisopliae</i> sensu lato 8897
AVRDC 0193B <i>Metarhizium anisopliae</i> sensu lato 8795	AVRDC 0390B <i>Metarhizium anisopliae</i> sensu lato 8860	AVRDC 0477B <i>Metarhizium anisopliae</i> sensu lato 8898
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AVRDC 0286B <i>Purpureocillium lilac-</i> <i>inum</i> 8919	AVRDC 0411B <i>Metarhizium anisopliae</i> sensu lato 8866	AVRDC 0529B <i>Purpureocillium lilac-</i> <i>inum</i> 8921
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AVRDC 0331B <i>Metarhizium anisopliae</i> sensu lato 8786	AVRDC 0432B <i>Metarhizium anisopliae</i> sensu lato 8878	AVRDC 0587B <i>Purpureocillium lilac-</i> <i>inum</i> 8922
AVRDC 0338B <i>Metarhizium anisopliae</i> sensu lato 8787	AVRDC 0437B <i>Metarhizium anisopliae</i> sensu lato 8879	AVRDC 0588B <i>Lecanicillium muscarium</i> 8923
AVRDC 0344B <i>Metarhizium anisopliae</i> sensu lato 8788	AVRDC 0439B <i>Metarhizium anisopliae</i> sensu lato 8880	AVRDC 0592B <i>Metarhizium anisopliae</i> sensu lato 8907
AVRDC 0346B <i>Metarhizium anisopliae</i> sensu lato 8789	AVRDC 0440B <i>Metarhizium anisopliae</i> sensu lato 8881	AVRDC 0599B <i>Metarhizium anisopliae</i> sensu lato 8908
AVRDC 0350B <i>Metarhizium anisopliae</i> sensu lato 8790	AVRDC 0441B <i>Metarhizium anisopliae</i> sensu lato 8882	AVRDC 0602B <i>Metarhizium anisopliae</i> sensu lato 8950
AVRDC 0355B <i>Metarhizium anisopliae</i> sensu lato 8791	AVRDC 0442B <i>Metarhizium anisopliae</i> sensu lato 8883	AVRDC 0611B <i>Metarhizium anisopliae</i> sensu lato 8909
AVRDC 0373B <i>Metarhizium anisopliae</i> sensu lato 8792	AVRDC 0449B <i>Metarhizium anisopliae</i> sensu lato 8884	AVRDC 0612B <i>Metarhizium anisopliae</i> sensu lato 8910
AVRDC 0374B <i>Metarhizium anisopliae</i> sensu lato 8793	AVRDC 0450B <i>Metarhizium anisopliae</i> sensu lato 8885	AVRDC 0614B <i>Metarhizium anisopliae</i> sensu lato 8911
AVRDC 0376B <i>Metarhizium anisopliae</i> sensu lato 8954	AVRDC 0451B <i>Metarhizium anisopliae</i> sensu lato 8886	SP-3 <i>Beauveria bassiana</i> 10347
		SP-374 <i>Beauveria bassiana</i> 10350
		SPT 003 <i>Beauveria</i> sp. 5831

Alternate Collections

Parker, Bruce L.
Rath, Andrew C.

SPT 012 *Isaria farinosa* 5754
 SPT 013/1 *Beauveria* sp. 5833
 SPT 013/2 *Isaria farinosa* 5834
 SPT-010 *Beauveria bassiana* 5668
 SPT-014 Unidentified / Hyphomycetes 5677
 SPT-018 *Beauveria bassiana* 5669
 SPT-019 *Beauveria bassiana* 5670
 SPT-020 *Beauveria* sp. 5678
 SPT-2-279 *Purpureocillium lilacinum* 6110
 SPT-KR-415/2 *Verticillium* sp. 6486
 SPT-KR-452 *Beauveria bassiana* 6499
 SPT-KZ-375 *Beauveria bassiana* 6478
 SPT-KZ-406 *Beauveria bassiana* 6483
 SPT-KZ-412 *Verticillium* sp. 6484
 SPT-KZ-417 *Verticillium lecanii* 6487
 SPT-KZ-418 *Isaria farinosa* 6488
 SPT-KZ-419 *Isaria farinosa* 6489
 SPT-KZ-423 *Isaria farinosa* 6491
 SPT-KZ-458 *Verticillium* sp. 6501
 SPT-U-250 *Beauveria bassiana* 6055
 SPT-U-253 *Beauveria bassiana* 6057
 SPT-U-254 *Beauveria bassiana* 6058
 SPT-U-255 *Beauveria bassiana* 6059
 SPT-U-261 *Beauveria bassiana* 6061
 SPT-U-262 *Beauveria bassiana* 6062
 SPT-U-263 *Beauveria bassiana* 6063
 SPT-U-264 *Beauveria bassiana* 6064
 SPT-U-293 *Beauveria bassiana* 6074
 SPT-U-294 *Beauveria bassiana* 6075
 SPT-U-295 *Beauveria bassiana* 6111
 SPT-U-296 *Beauveria bassiana* 6112
 SPT-U-297 *Beauveria bassiana* 6113
 SPT-U-305 *Beauveria bassiana* 6077
 SPT-U-308 *Beauveria bassiana* 6078
 SPT-U-323 *Beauveria bassiana* 6092
 SPT-U-335 *Beauveria bassiana* 6095
 SPT-U-338 *Beauveria bassiana* 6096
 SPT-U-354/2 *Beauveria bassiana* 6099

Pava-Ripoll, Monica
 Bb UMD-Greenhouse *Beauveria bassiana* 8998

Pereault, Renee J.
 bbpci#1 *Beauveria bassiana* 8260
 bbpci#2 *Beauveria bassiana* 8261
 bbpci#3 *Beauveria bassiana* 8262
 bbpci#5 *Beauveria bassiana* 8263
 Walton Control pci#1 *Fusarium* sp. 8267
 Walton Spray pci#2 *Lecanicillium muscarium*(?) 8265
 Walton Spray pci#3 *Fusarium* sp. 8266

Poprawski, Tadeusz J.
 0107 *Beauveria bassiana* 1515
 0111 *Beauveria bassiana* 1518
 0112 *Beauveria bassiana* 1519
 0120 Unidentified sp. 1634
 0143 *Beauveria bassiana* 1647
 0165 *Beauveria bassiana* 1815
 0166A *Beauveria bassiana* 1816
 0166B *Beauveria bassiana* 1817
 0166C *Beauveria bassiana* 1818
 0166D *Beauveria bassiana* 1819
 0167A *Beauveria bassiana* 1820

0167B *Beauveria bassiana* 1821
 0167C *Beauveria bassiana* 1811
 0178 *Beauveria bassiana* 1975
 0183 *Beauveria bassiana* 1980
 0185 *Beauveria bassiana* 1982
 070 *Beauveria bassiana* 1164
 071A *Beauveria bassiana* 1163
 072 *Beauveria bassiana* 1154
 073 *Beauveria bassiana* 1155
 074 *Beauveria bassiana* 1153
 082 *Beauveria* sp. 1327
 083 *Acremonium furcatum* 1372
 084 *Lecanicillium muscarium* 1328
 085 *Aphanocladium album* 1329
 086 *Beauveria bassiana* 1398
 087 *Beauveria bassiana* 1399
 088 *Beauveria bassiana* 1389
 089 *Lecanicillium muscarium* 1401
 090 *Lecanicillium muscarium* 1402
 091 *Lecanicillium muscarium* 1403
 645 *Beauveria bassiana* 1191
 646 *Beauveria bassiana* 1192
 647 *Beauveria bassiana* 1193
 648 *Beauveria bassiana* 1194
 83-48 *Beauveria bassiana* 1073
 83-49 *Beauveria bassiana* 1074
 83-54 *Beauveria bassiana* 1075
 83-611 *Beauveria bassiana* 1306
 83-614 *Beauveria bassiana* 1160
 83-615 *Beauveria bassiana* 1159
 83-616 *Beauveria bassiana* 1182
 83-619 *Beauveria bassiana* 1157
 83-621 *Beauveria bassiana* 1165
 83-623 *Beauveria bassiana* 1162
 83-626 *Beauveria bassiana* 1161
 83-634 *Beauveria bassiana* 1158
 83-639 *Beauveria bassiana* 1156
 83-701 *Beauveria bassiana* 1167
 83-702 *Beauveria bassiana* 1168
 83-703 *Beauveria bassiana* 1169
 83-704 *Beauveria bassiana* 1170
 8651 *Scopulariopsis* sp. 2327
 8710 *Beauveria bassiana* 2463
 A1 *Beauveria bassiana* 1189
 A10 *Beauveria bassiana* 1311
 A11 *Beauveria bassiana* 1312
 A12 *Beauveria bassiana* 1313
 A2 *Beauveria bassiana* 1171
 A3 *Beauveria bassiana* 1190
 A4 *Beauveria bassiana* 1172
 A5 *Beauveria bassiana* 1173
 A6 *Beauveria bassiana* 1174
 A7 *Beauveria bassiana* 1175
 A8 *Beauveria bassiana* 1309
 A9 *Fusarium* sp. 1310
 E1 *Beauveria bassiana* 1188
 J1 *Beauveria bassiana* 1176
 J2 *Beauveria bassiana* 1177
 J3 *Beauveria bassiana* 1178
 J4 *Beauveria bassiana* 1179
 J5 *Beauveria bassiana* 1180
 J6 *Beauveria bassiana* 1181
 J7 *Beauveria bassiana* 1183
 TJP901 *Beauveria bassiana* 5436
 TJP902 *Beauveria bassiana* 5437
 TJP903 *Beauveria bassiana* 5438

TJP904 *Beauveria bassiana* 5439
 TJP905 *Beauveria bassiana* 5440
 TJP906 *Beauveria bassiana* 5441
 TJP907 *Beauveria bassiana* 5442
 TJP908 *Beauveria bassiana* 5443
 TJP909 *Beauveria bassiana* 5444
 TJP910 *Beauveria bassiana* 5445
 TJP911 *Beauveria bassiana* 5446
 TJP912 *Beauveria bassiana* 5447
 TJP913 *Beauveria bassiana* 5448
 TJP914 *Beauveria bassiana* 5449
 TJP915 *Beauveria bassiana* 5450
 TJP916 *Beauveria bassiana* 5451
 TJP917 *Beauveria bassiana* 5452
 TJP918 *Beauveria bassiana* 5453
 TJP919 *Beauveria bassiana* 5454
 TJP920 *Beauveria bassiana* 5455
 TJP921 *Beauveria bassiana* 5456
 TJP922 *Beauveria bassiana* 5457
 TJP923 *Beauveria bassiana* 5458
 TJP924 *Beauveria bassiana* 5459
 TJP925 *Beauveria bassiana* 5460
 TJP926 *Fusarium* sp. 5461
 TJP930 *Beauveria bassiana* 5465

Prior, Christopher

Kenya 1 *Beauveria bassiana* 2685
 Kenya 2 *Beauveria bassiana* 2686
 Kenya 3 *Beauveria bassiana* 2687
 Togo 1 *Beauveria bassiana* 2688
 Togo 2 *Beauveria bassiana* 2689
 Togo 3 *Beauveria bassiana* 2690
 Togo 4 *Beauveria bassiana* 2691
 Togo 5 *Beauveria bassiana* 2692

QEC

433.0 *Metarhizium guizhouense* 683

QM

191 *Metarhizium brunneum* 2107

Rajak, R.C.

49 *Metarhizium pingshaense* 3210

Rath, Andrew C.

F001 *Metarhizium frigidum* 4124
 F007 *Beauveria bassiana* 4130
 F010 *Metarhizium brunneum* 4131
 F011 *Metarhizium anisopliae* sensu lato 4132
 F012 *Metarhizium anisopliae* sensu lato 4133
 F013 *Metarhizium anisopliae* sensu lato 4236
 F014 *Metarhizium anisopliae* sensu lato 4134
 F015 *Beauveria bassiana* 4135
 F017 *Beauveria bassiana* 4136
 F019 *Metarhizium anisopliae* sensu lato 4137
 F020 *Metarhizium anisopliae* sensu lato 4138
 F024 *Metarhizium anisopliae* sensu lato 4139
 F025 Unidentified sp. 4140
 F028 *Metarhizium anisopliae* sensu lato 4716

F029 *Metarhizium anisopliae* sensu lato
4141
F033 *Metarhizium anisopliae* sensu lato
4346
F034 *Metarhizium anisopliae* sensu lato
4239
F036 *Metarhizium anisopliae* sensu lato
4142
F120 *Metarhizium brunneum* 4228
F130 *Metarhizium flavoviride* var.
flavoviride 4719
F133 *Metarhizium flavoviride* var.
flavoviride 4720
F140 *Beauveria bassiana* 4721
F141 *Metarhizium anisopliae* sensu lato
4722
F142 *Beauveria amorpha* 4149
F143 *Beauveria bassiana* 4274
F26 Sterile mycelium 4243
F433 *Metarhizium anisopliae* sensu lato
4677
F473 *Metarhizium guizhouense* 4604
F478 *Metarhizium anisopliae* sensu lato
4582
F479 *Metarhizium anisopliae* sensu lato
4572
F480 *Metarhizium pingshaense* 4610
F481 *Metarhizium anisopliae* sensu lato
4557
F483 *Metarhizium anisopliae* sensu lato
4333
F484 *Metarhizium anisopliae* sensu lato
4335
F485 *Metarhizium anisopliae* sensu lato
4339
F486 *Metarhizium anisopliae* sensu lato
4338
F487 *Metarhizium anisopliae* sensu lato
4341
F488 *Metarhizium anisopliae* sensu lato
4336
F489 *Metarhizium anisopliae* sensu lato
4340
F490 *Metarhizium anisopliae* sensu lato
4337
F491 *Metarhizium pingshaense* 4342
F492 *Metarhizium anisopliae* sensu lato
4334
F493 *Metarhizium anisopliae* sensu lato
4290
F507 *Metarhizium anisopliae* sensu lato
4777
F510 *Metarhizium anisopliae* sensu lato
4568
F511 *Metarhizium anisopliae* sensu lato
4778
F512 *Metarhizium anisopliae* sensu lato
4779
F513 *Metarhizium anisopliae* sensu lato
4780
F514 *Metarhizium majus* 4566
F515 *Metarhizium majus* 4601
F516 *Metarhizium anisopliae* sensu lato
4574
Fl24 *Metarhizium anisopliae* sensu lato
4125

RCEF

0189 *Isaria catenobliqua* 6244
0231 *Beauveria pseudobassiana* 6229
0385 *Beauveria brongniartii* 6235
0464 *Isaria cateniannulata* 6241
0516 *Isaria cateniannulata* 6243

Reid, William

BS-2010-1 *Tilachlidium* sp. 10132

Reinganum

124 *Metarhizium frigidum* 4124

Reyes, Enrique Reyes Dominguez

BbCO1 *Beauveria bassiana* 3818
BbCO2 Unidentified sp. 3821
BbCO2 *Beauveria bassiana* 3819
BbH Unidentified sp. 3821

Riethmacher, Guenter W.

Bet1 *Beauveria bassiana* 3197
Bet2 *Beauveria bassiana* 3198
Bet3 *Beauveria bassiana* 3199

Roberts, Donald W.

102381-9 *Metarhizium guizhouense* 683
103a *Metarhizium anisopliae* sensu lato
1903
MaT3JB-A *Metarhizium robertsii* 1878
MaT3JB-B *Metarhizium robertsii* 1298
MaT3JB-C *Metarhizium anisopliae*
sensu lato 1280
Pol-32 *Metarhizium majus* 1859
Pol-42 *Metarhizium majus* 1858
single spore isolate #1 *Metarhizium*
anisopliae sensu lato 1280
single spore isolate #9 *Metarhizium*
robertsii 1298
V-14 (F84 mutant) *Metarhizium robert-*
sii 1897

Rodriguez Sierra, Dora Alba

106 Bb *Beauveria bassiana* 2248
201 Bb *Beauveria bassiana* 2250
203 Bb *Beauveria bassiana* 2249

Rombach, Michiel C.

140486 *Metarhizium brunneum* 2224
140486-1 Unidentified / Hyphomycetes
2225
140486-1 *Metarhizium brunneum* 2210
140486-1 *Aspergillus parasiticus* 2173
170386-1 *Metarhizium anisopliae* var.
majus 2151
171085-1 *Beauveria bassiana* 2040
201286-7 *Isaria farinosa* 2355
A *Beauveria brongniartii* 1431
MMQ *Metarhizium majus* 1946

Sánchez Peña, Sergio René
2 *Lecanicillium* sp. 2(?) 2832

Sandoval, Sonia

95 *Beauveria bassiana* 2557

SARL

155 *Beauveria bassiana* 5286

Searle, Tanya

CW1 *Beauveria bassiana* 2983
CW2 *Beauveria bassiana* 2984
CW3 *Beauveria bassiana* 2985
CW4 *Beauveria bassiana* 2986
CWMA *Metarhizium robertsii* 2981
E *Metarhizium robertsii* 2134
F *Metarhizium anisopliae* sensu lato
2135

K *Metarhizium anisopliae* sensu lato
2136

LD1 *Beauveria bassiana* 2987

LD2 *Beauveria bassiana* 2988

LD3 *Beauveria bassiana* 2989

LD4 *Beauveria bassiana* 2990

LD5 *Beauveria bassiana* 2991

Q *Metarhizium anisopliae* sensu lato
2137

W *Metarhizium anisopliae* sensu lato
2138

Z *Metarhizium anisopliae* sensu lato
2139

Shimazu, Mitsuaki

F-1101 *Beauveria brongniartii* 6412
F-237 *Beauveria bassiana* 1678
F-263 *Beauveria bassiana* 1679
F-313 *Beauveria amorpha* 1680
F-333 *Beauveria* sp. 1681
F-357(11) *Beauveria* sp. 1682
F-359(30) *Beauveria bassiana* 1683
F-450 *Beauveria sungii* 1685
F-545 *Tilachlidium* sp. 2415
F-621 *Cordyceps brongniartii* 7516
F-638 *Cordyceps brongniartii* 7517
F-77 *Beauveria amorpha* 1676

Soares, George G.

10 Beauveria bassiana 814
12 Beauveria bassiana 815
17 *Metarhizium brunneum* 817
19 *Metarhizium anisopliae* sensu lato
818
20 Beauveria bassiana 816
21 *Metarhizium guizhouense* 819
6 Beauveria bassiana 813
A7 *Metarhizium brunneum* 820

Soper, Richard S.

F84-1-1 *Metarhizium robertsii* 23

Sosa-Gómez, Daniel R.

CNPSo-Ma58 *Metarhizium anisopliae*
sensu stricto 3924

SRCAMB

B-103 *Beauveria bassiana* 9441
B-158 *Engyodontium rectidentatum* 7805
B-182 *Beauveria* sp. 7591
B-184 *Evlachovaea kintrischica* 8058
B-184 *Evlachovaea kintrischica* 7218
B-22 *Beauveria* sp. 7580
B-25 *Beauveria bassiana* 7581
B-405 *Beauveria* sp. 7595
B-405/2 *Isaria farinosa* 9516
B-46 *Clonostachys rosea* 9491
B-47 *Cordyceps* sp. 7848
VL-1325/1 *Polycephalomyces* sp. 9496

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VL-1396/2 *Beauveria bassiana* 9444
 VL-1582 *Beauveria brongniartii* 9452
 VL-1587/2 *Lecanicillium* sp. 9459
 VL-1587/3 *Isaria farinosa* 9511
 VL-1786 *Simplicillium lamellicola* 9479
 VL-1914/1 *Isaria* sp. 9519
 VL-1951 *Polycephalomyces* sp. 9497
 VL-1999 *Beauveria bassiana* 9449
 VL-2052 *Sporothrix insectorum* 9502
 VL-2057 *Isaria fumosorosea* 9521
 VL-2059 *Purpureocillium lilacinum* 9524
 VL-2063 *Lecanicillium fungicola* 9483
 VL-2091 *Isaria coleopterorum* 9509
 VL-2092 *Lecanicillium* nr. *aranearum* 9460
 VL-277 *Beauveria bassiana* 9442
 VL-389 *Tolypocladium cylindrosporum* 7812

St. Leger, Raymond J.

ME-1 *Metarhizium robertsii* 3608
 ME-1 *Metarhizium robertsii* 2575

Steenberg, Tove

135 Sterile mycelium 4009
 193 *Fusarium* sp. 4011
 195 *Beauveria bassiana* 4013
 196 *Beauveria bassiana* 4015
 201 *Beauveria bassiana* 4016
 202 *Beauveria bassiana* 4018
 205 *Beauveria bassiana* 4019
 211 *Metarhizium brunneum* 4020
 212 *Beauveria bassiana* 4021
 216 *Verticillium lecanii* 4022
 217 *Beauveria bassiana* 4023
 226 *Beauveria brongniartii* 4024
 231 *Beauveria* sp. 4027
 233 *Beauveria bassiana* 4028
 234 *Isaria farinosa* 4029
 237 *Beauveria bassiana* 4031
 238 *Beauveria bassiana* 4032
 239 *Lecanicillium muscarium* 4033
 240 *Beauveria bassiana* 4034
 244 *Lecanicillium muscarium* 4036
 251 Unidentified sp. 4037
 253 *Beauveria bassiana* 4038
 259 *Isaria farinosa* 4039
 260 *Isaria farinosa* 4040
 261 *Beauveria bassiana* 4041
 269 *Isaria farinosa* 4043
 270 *Isaria farinosa* 4044
 274 *Isaria farinosa* 4045
 276 *Beauveria bassiana* 4046
 295 *Verticillium lecanii* 4047
 297 *Verticillium lecanii* 4048
 298 *Beauveria bassiana* 4049
 299 *Lecanicillium longisporum* 4050
 349 *Beauveria bassiana* 4051
 355 *Beauveria bassiana* 4052
 359 *Beauveria bassiana* 4054
 362 *Beauveria bassiana* 4055
 365 *Beauveria bassiana* 4056
 SSL 14 *Metarhizium anisopliae* sensu lato 5837
 SSL 25 *Beauveria bassiana* 5838
 SSL 27 *Beauveria bassiana* 5839
 SSL 28 *Beauveria bassiana* 5840

SSL 32 *Metarhizium anisopliae* sensu lato 5841
 SSL 50 *Metarhizium anisopliae* sensu lato 5842
 SSL 55 *Beauveria bassiana* 5843
 SSL 58 *Isaria fumosorosea* 5844
 SSL 59 *Isaria fumosorosea* 5845
 SSL 6 *Beauveria bassiana* 5836
 SSL 607 *Verticillium lecanii* 5856
 SSL 608 *Beauveria bassiana* 5857
 SSL 61 *Isaria fumosorosea* 5846
 SSL 610 *Isaria farinosa* 5858
 SSL 62 *Isaria fumosorosea* 5847
 SSL 75 *Metarhizium anisopliae* sensu lato 5848
 SSL 82 *Verticillium lecanii* 5849
 SSL 84 *Metarhizium anisopliae* sensu lato 5850

Stimac, Jerry L.

UF 5782 *Beauveria bassiana* 5979
 UF 5792 *Beauveria bassiana* 5981
 UF 5820 *Beauveria bassiana* 5982
 UF 5822 *Beauveria bassiana* 5983
 UF 5823 *Beauveria bassiana* 5984
 UF 5849 *Beauveria bassiana* 5986

Sung, Jae-Mo

C-321 *Isaria amoenerosea* 4849
 C-331 *Cordyceps* sp. 4852
 C-332 *Beauveria* sp. 4853
 EFCC 1290 *Beauveria bassiana* 7241
 EFCC 1646 *Beauveria bassiana* 7244
 EFCC 2010 *Beauveria bassiana* 7247
 EFCC 2011 *Lecanicillium muscarium* 7248
 EFCC 2022 *Beauveria bassiana* 7251
 EFCC 2533 *Cordyceps scarabaeicola* 7277
 EFCC 2535 *Cordyceps scarabaeicola* 7278
 EFCC 2941 *Beauveria bassiana* 7261
 EFCC 3684 *Beauveria bassiana* 7264
 EFCC 4381 *Beauveria bassiana* 7266
 EFCC 5014 *Beauveria sungii* 7279
 EFCC 5119 *Beauveria brongniartii* 7276
 EFCC 5657 *Beauveria sungii* 7280
 EFCC 6522 *Beauveria bassiana* 7270
 EFCC 6878 *Beauveria bassiana* 7271
 EFCC 6879 *Beauveria bassiana* 7272
 EFCC 8224 *Beauveria bassiana* 7275
 EFCC 9251 *Isaria farinosa* 7276
 KEFC-6200 *Beauveria bassiana* 6721
 KEFC-1087 Unidentified / Hyphomycetes 5695
 KEFC-1105 *Beauveria* sp. 5697
 KEFC-1170 *Isaria farinosa* 5699
 KEFC-251 *Beauveria sungii* 5689
 KEFC-919 *Isaria fumosorosea* 5694

Tanyeli, Elif

Dm-1 *Lecanicillium muscarium* 9267
 Dm-10 *Isaria farinosa* 9276
 Dm-11 *Isaria farinosa* 9277
 Dm-12 *Isaria farinosa* 9278
 Dm-2 *Lecanicillium muscarium* 9268
 Dm-3 *Isaria farinosa* 9269
 Dm-4 *Isaria farinosa* 9270
 Dm-5 *Beauveria bassiana*(?) 9271
 Dm-6 *Beauveria* sp. 9272
 Dm-7 *Fusarium* sp. 9273
 Dm-8 *Fusarium* sp. 9274
 Dm-9 *Isaria farinosa* 9275

Tate and Lyle Ltd

Batch No. B1830 *Metarhizium robertsii* 3608
 Batch No. B1830 *Metarhizium robertsii* 2575

Theunis, W.

PNG 1 *Metarhizium guizhouense* 4604
 SOL IS 10 *Metarhizium anisopliae* sensu lato 4339
 SOL IS 11 *Metarhizium anisopliae* sensu lato 4338
 SOL IS 12 *Metarhizium anisopliae* sensu lato 4341
 SOL IS 12 *Metarhizium anisopliae* sensu lato 4336
 SOL IS 14 *Metarhizium anisopliae* sensu lato 4340
 SOL IS 14 *Metarhizium anisopliae* sensu lato 4337
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 SOL IS 16 *Metarhizium anisopliae* sensu lato 4334
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23	Metarhizium robertsii	758	Beauveria bassiana	1072	Beauveria brongniartii
79	Conidiobolus osmodes	760	Metarhizium anisopliae sensu lato	1073	Beauveria bassiana
80	Conidiobolus sp.	783	Beauveria bassiana	1074	Beauveria bassiana
81	Conidiobolus sp.	784	Beauveria bassiana	1075	Beauveria bassiana
113	Zoophthora phytonomi	785	Beauveria bassiana	1076	Beauveria brongniartii
149	Beauveria bassiana	786	Beauveria bassiana	1077	Beauveria brongniartii
150	Beauveria bassiana	787	Beauveria bassiana	1079	Beauveria bassiana
157	Beauveria bassiana	788	Beauveria bassiana	1081	Beauveria bassiana
191	Zoophthora phytonomi	797	Metarhizium robertsii	1106	Beauveria bassiana
192	Zoophthora phytonomi	799	Isaria farinosa	1123	Sorosporella uvella
201	Beauveria bassiana	804	Beauveria bassiana	1153	Beauveria bassiana
202	Zoophthora phytonomi	805	Beauveria bassiana	1154	Beauveria bassiana
252	Beauveria bassiana	808	Metarhizium anisopliae sensu lato	1155	Beauveria bassiana
293	Beauveria bassiana	809	Beauveria bassiana	1156	Beauveria bassiana
297	Metarhizium anisopliae var. majus	813	Beauveria bassiana	1157	Beauveria bassiana
298	Metarhizium anisopliae var. majus	814	Beauveria bassiana	1158	Beauveria bassiana
301	Beauveria bassiana	815	Beauveria bassiana	1159	Beauveria bassiana
317	Beauveria bassiana	816	Beauveria bassiana	1160	Beauveria bassiana
318	Beauveria bassiana	817	Metarhizium brunneum	1161	Beauveria bassiana
319	Beauveria bassiana	818	Metarhizium anisopliae sensu lato	1162	Beauveria bassiana
322	Isaria javanica	819	Metarhizium guizhouense	1163	Beauveria bassiana
325	Beauveria bassiana	820	Metarhizium brunneum	1164	Beauveria bassiana
336	Beauveria bassiana	842	Beauveria bassiana	1165	Beauveria bassiana
337	Beauveria bassiana	915	Pandora blunckii	1167	Beauveria bassiana
340	Beauveria bassiana	917	Pandora blunckii	1168	Beauveria bassiana
344	Beauveria bassiana	920	Pandora blunckii	1169	Beauveria bassiana
346	Metarhizium brunneum	928	Beauveria bassiana	1170	Beauveria bassiana
350	Beauveria bassiana	929	Metarhizium anisopliae sensu lato	1171	Beauveria bassiana
353	Beauveria bassiana	930	Beauveria bassiana	1172	Beauveria bassiana
384	Beauveria bassiana	931	Beauveria bassiana	1173	Beauveria bassiana
396	Zoophthora anglica	932	Metarhizium anisopliae sensu lato	1174	Beauveria bassiana
410	Purpureocillium lilacinum	934	Beauveria bassiana	1175	Beauveria bassiana
412	Beauveria bassiana	937	Beauveria bassiana	1176	Beauveria bassiana
413	Beauveria bassiana	938	Beauveria bassiana	1177	Beauveria bassiana
416	Beauveria bassiana	939	Metarhizium anisopliae sensu lato	1178	Beauveria bassiana
433	Beauveria bassiana	941	Beauveria bassiana	1179	Beauveria bassiana
472	Metarhizium brunneum	942	Beauveria bassiana	1180	Beauveria bassiana
504	Beauveria bassiana	943	Beauveria bassiana	1181	Beauveria bassiana
505	Beauveria bassiana	946	Beauveria bassiana	1182	Beauveria bassiana
506	Beauveria bassiana	947	Beauveria bassiana	1183	Beauveria bassiana
507	Beauveria bassiana	948	Beauveria bassiana	1184	Metarhizium flavoviride var. flavoviride■
509	Beauveria bassiana	949	Beauveria bassiana	1185	Beauveria bassiana
510	Beauveria bassiana	950	Beauveria bassiana	1186	Beauveria bassiana
534	Beauveria bassiana	951	Beauveria bassiana	1188	Beauveria bassiana
535	Beauveria bassiana	952	Beauveria bassiana	1189	Beauveria bassiana
538	Metarhizium pingshaense	953	Beauveria bassiana	1190	Beauveria bassiana
547	Beauveria sp.	954	Metarhizium anisopliae sensu lato	1191	Beauveria bassiana
617	Beauveria brongniartii	956	Beauveria bassiana	1192	Beauveria bassiana
683	Metarhizium guizhouense	958	Beauveria bassiana	1193	Beauveria bassiana
721	Beauveria bassiana	977	Metarhizium guizhouense	1194	Beauveria bassiana
722	Isaria fumosorosea	978	Metarhizium majus	1280	Metarhizium anisopliae sensu lato
723	Purpureocillium lilacinum	979	Beauveria brongniartii	1298	Metarhizium robertsii
724	Metarhizium robertsii	982	Beauveria bassiana	1306	Beauveria bassiana
725	Metarhizium anisopliae sensu lato	984	Paecilomyces canadensis	1309	Beauveria bassiana
731	Beauveria bassiana	985	Beauveria brongniartii	1310	Fusarium sp.
732	Beauveria bassiana	1016	Beauveria bassiana	1311	Beauveria bassiana
733	Beauveria bassiana	1017	Evlachovaea sp.	1312	Beauveria bassiana
734	Beauveria bassiana	1039	Beauveria bassiana	1313	Beauveria bassiana
735	Beauveria bassiana	1041	Beauveria bassiana	1327	Beauveria sp.
736	Beauveria bassiana	1043	Mixed Culture sp.	1328	Lecanicillium muscarium
738	Beauveria bassiana	1046	Metarhizium robertsii	1329	Aphanocladium album
739	Beauveria bassiana	1056	Metarhizium anisopliae sensu lato	1335	Lecanicillium muscarium
741	Isaria amoenerosea	1060	Beauveria bassiana	1372	Acremonium furcatum
744	Isaria amoenerosea	1061	Beauveria bassiana	1377	Metarhizium anisopliae sensu lato
751	Beauveria bassiana	1066	Metarhizium brunneum	1389	Beauveria bassiana
752	Beauveria bassiana	1067	Beauveria brongniartii	1398	Beauveria bassiana
753	Beauveria bassiana	1068	Beauveria brongniartii	1399	Beauveria bassiana
754	Beauveria bassiana	1069	Beauveria brongniartii	1401	Lecanicillium muscarium
756	Beauveria bassiana	1070	Beauveria brongniartii	1402	Lecanicillium muscarium
757	Beauveria bassiana	1071	Beauveria brongniartii	1403	Lecanicillium muscarium

1424	Polycephalomyces formosus	1710	Beauveria bassiana	2076	Metarhizium anisopliae sensu lato
1431	Beauveria brongniartii	1711	Beauveria bassiana	2077	Metarhizium anisopliae sensu lato
1450	Beauveria bassiana	1712	Beauveria bassiana	2079	Beauveria bassiana
1453	Beauveria bassiana	1713	Beauveria bassiana	2107	Metarhizium brunneum
1454	Beauveria bassiana	1715	Pandora blunckii	2134	Metarhizium robertsii
1455	Beauveria bassiana	1716	Pandora blunckii	2135	Metarhizium anisopliae sensu lato
1456	Beauveria bassiana	1717	Pandora blunckii	2136	Metarhizium anisopliae sensu lato
1458	Beauveria bassiana	1718	Pandora blunckii	2137	Metarhizium anisopliae sensu lato
1459	Beauveria bassiana	1721	Beauveria bassiana	2138	Metarhizium anisopliae sensu lato
1460	Beauveria bassiana	1722	Beauveria bassiana	2139	Metarhizium anisopliae sensu lato
1461	Beauveria bassiana	1723	Beauveria bassiana	2151	Metarhizium anisopliae var. majus
1462	Beauveria bassiana	1739	Zoophthora anglica	2156	Metarhizium anisopliae sensu lato
1463	Beauveria bassiana	1749	Beauveria bassiana	2162	Metarhizium pingshaense
1464	Beauveria bassiana	1750	Beauveria bassiana	2163	Metarhizium anisopliae sensu lato
1465	Beauveria bassiana	1775	Beauveria bassiana	2165	Metarhizium anisopliae sensu lato
1466	Beauveria bassiana	1776	Beauveria bassiana	2166	Metarhizium anisopliae sensu lato
1467	Beauveria bassiana	1777	Beauveria bassiana	2167	Metarhizium anisopliae sensu lato
1469	Beauveria bassiana	1778	Beauveria bassiana	2169	Scopulariopsis sp.
1470	Beauveria bassiana	1779	Beauveria bassiana	2173	Aspergillus parasiticus
1471	Beauveria bassiana	1780	Beauveria bassiana	2188	Zoophthora phyttonomi
1472	Beauveria bassiana	1781	Beauveria bassiana	2210	Metarhizium brunneum
1473	Beauveria bassiana	1811	Beauveria bassiana	2216	Isaria fumosorosea
1475	Beauveria bassiana	1815	Beauveria bassiana	2217	Isaria fumosorosea
1476	Beauveria bassiana	1816	Beauveria bassiana	2218	Pochonia chlamydosporia var. chlamydosporia
1480	Beauveria bassiana	1817	Beauveria bassiana	2219	Isaria fumosorosea
1483	Beauveria bassiana	1818	Beauveria bassiana	2220	Isaria amoenerosea
1491	Beauveria bassiana	1819	Beauveria bassiana	2221	Isaria fumosorosea
1505	Lecanicillium lecanii	1820	Beauveria bassiana	2223	Metarhizium anisopliae sensu stricto
1506	Isaria fumosorosea	1821	Beauveria bassiana	2224	Metarhizium brunneum
1507	Isaria farinosa	1833	Beauveria bassiana	2225	Unidentified / Hyphomycetes
1508	Isaria farinosa	1835	Beauveria sp.	2231	Metarhizium pingshaense
1509	Beauveria bassiana	1848	Beauveria bassiana	2248	Beauveria bassiana
1510	Beauveria bassiana	1849	Beauveria bassiana	2249	Beauveria bassiana
1511	Beauveria bassiana	1852	Beauveria bassiana	2250	Beauveria bassiana
1515	Beauveria bassiana	1853	Beauveria bassiana	2251	Beauveria caledonica
1518	Beauveria bassiana	1854	Beauveria bassiana	2270	Beauveria bassiana
1519	Beauveria bassiana	1855	Beauveria pseudobassiana	2271	Beauveria brongniartii
1559	Beauveria bassiana	1858	Metarhizium majus	2327	Scopulariopsis sp.
1560	Beauveria bassiana	1859	Metarhizium majus	2330	Beauveria bassiana
1561	Beauveria bassiana	1878	Metarhizium robertsii	2355	Isaria farinosa
1562	Beauveria bassiana	1885	Metarhizium anisopliae sensu lato	2412	Beauveria sp.
1563	Beauveria bassiana	1897	Metarhizium robertsii	2415	Tilachlidium sp.
1566	Beauveria bassiana	1901	Metarhizium anisopliae sensu lato	2463	Beauveria bassiana
1567	Beauveria caledonica	1903	Metarhizium anisopliae sensu lato	2469	Metarhizium robertsii
1572	Conidiobolus coronatus	1910	Metarhizium robertsii	2505	Zoophthora anglica
1573	Conidiobolus coronatus	1914	Metarhizium majus	2509	Beauveria bassiana
1574	Conidiobolus coronatus	1946	Metarhizium majus	2511	Beauveria bassiana
1575	Conidiobolus coronatus	1951	Purpureocillium lilacinum	2512	Beauveria bassiana
1619	Beauveria bassiana	1954	Beauveria bassiana	2513	Metarhizium anisopliae sensu lato
1620	Beauveria bassiana	1956	Beauveria bassiana	2514	Metarhizium robertsii
1621	Beauveria bassiana	1957	Isaria farinosa	2515	Beauveria bassiana
1622	Beauveria bassiana	1958	Metarhizium anisopliae sensu lato	2518	Metarhizium anisopliae sensu stricto
1623	Beauveria bassiana	1961	Beauveria bassiana	2520	Beauveria bassiana
1624	Beauveria bassiana	1966	Beauveria bassiana	2525	Erynia sp.
1634	Unidentified sp.	1968	Metarhizium robertsii	2536	Erynia sp.
1647	Beauveria bassiana	1969	Beauveria amorpha	2537	Erynia sp.
1676	Beauveria amorpha	1971	Beauveria bassiana	2538	Erynia sp.
1678	Beauveria bassiana	1975	Beauveria bassiana	2539	Erynia sp.
1679	Beauveria bassiana	1980	Beauveria bassiana	2547	Metarhizium robertsii
1680	Beauveria amorpha	1982	Beauveria bassiana	2548	Metarhizium anisopliae sensu lato
1681	Beauveria sp.	1989	Metarhizium anisopliae sensu lato	2553	Erynia sp.
1682	Beauveria sp.	2010	Beauveria bassiana	2557	Beauveria bassiana
1683	Beauveria bassiana	2024	Metarhizium flavoviride	2559	Beauveria bassiana
1685	Beauveria sungii	2030	Beauveria bassiana	2568	Fusarium sp.
1704	Beauveria bassiana	2031	Beauveria bassiana	2569	Fusarium sp.
1705	Beauveria bassiana	2032	Beauveria bassiana	2575	Metarhizium robertsii
1706	Beauveria bassiana	2033	Beauveria bassiana	2579	Beauveria bassiana
1707	Beauveria bassiana	2034	Beauveria bassiana	2580	Beauveria bassiana
1708	Beauveria bassiana	2040	Beauveria bassiana	2625	Beauveria bassiana
1709	Beauveria bassiana	2075	Beauveria bassiana		

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2626	Beauveria bassiana	3198	Beauveria bassiana
2635	Metarhizium anisopliae sensu lato	3199	Beauveria bassiana
2638	Beauveria bassiana	3210	Metarhizium pingshaense
2639	Beauveria bassiana	3211	Metarhizium robertsii
2642	Beauveria bassiana	3219	Beauveria bassiana
2660	Beauveria brongniartii	3287	Beauveria bassiana
2663	Erynia sp.	3305	Metarhizium anisopliae sensu lato
2664	Erynia sp.	3306	Metarhizium anisopliae sensu lato
2676	Beauveria bassiana	3308	Metarhizium anisopliae sensu lato
2679	Isaria fumosorosea	3309	Beauveria bassiana
2685	Beauveria bassiana	3310	Beauveria bassiana
2686	Beauveria bassiana	3311	Beauveria bassiana
2687	Beauveria bassiana	3314	Pochonia chlamydosporia
2688	Beauveria bassiana	3329	Metarhizium anisopliae sensu lato
2689	Beauveria bassiana	3330	Metarhizium anisopliae sensu lato
2690	Beauveria bassiana	3331	Metarhizium anisopliae sensu lato
2691	Beauveria bassiana	3332	Metarhizium anisopliae sensu lato
2692	Beauveria bassiana	3333	Metarhizium anisopliae sensu lato
2693	Beauveria bassiana	3334	Metarhizium anisopliae sensu lato
2694	Beauveria varroae	3335	Metarhizium anisopliae sensu lato
2695	Beauveria bassiana	3336	Metarhizium anisopliae sensu lato
2832	Lecanicillium sp. 2(?)	3337	Metarhizium anisopliae sensu lato
2915	Stilbella buquetii	3338	Metarhizium anisopliae sensu lato
2937	Isaria farinosa	3339	Metarhizium anisopliae sensu lato
2938	Beauveria bassiana	3340	Metarhizium anisopliae sensu lato
2941	Metarhizium anisopliae sensu lato	3342	Zoophthora phytomoni
2942	Beauveria bassiana	3343	Zoophthora phytomoni
2945	Beauveria bassiana	3344	Zoophthora phytomoni
2946	Beauveria bassiana	3386	Beauveria bassiana
2950	Penicillium sp.	3388	Metarhizium robertsii
2952	Purpureocillium lilacinum	3389	Metarhizium anisopliae sensu lato
2956	Isaria fumosorosea	3403	Beauveria bassiana
2958	Isaria amoenerosea	3437	Beauveria bassiana
2959	Isaria amoenerosea	3438	Beauveria bassiana
2960	Isaria amoenerosea	3439	Beauveria bassiana
2961	Beauveria bassiana	3440	Beauveria bassiana
2981	Metarhizium robertsii	3441	Beauveria bassiana
2983	Beauveria bassiana	3442	Beauveria bassiana
2984	Beauveria bassiana	3443	Beauveria bassiana
2985	Beauveria bassiana	3444	Beauveria bassiana
2986	Beauveria bassiana	3445	Beauveria bassiana
2987	Beauveria bassiana	3446	Beauveria bassiana
2988	Beauveria bassiana	3447	Beauveria bassiana
2989	Beauveria bassiana	3448	Beauveria bassiana
2990	Beauveria bassiana	3450	Beauveria bassiana
2991	Beauveria bassiana	3451	Beauveria bassiana
2999	Unidentified / Hyphomycetes	3452	Beauveria bassiana
3030	Fusarium sp.	3453	Beauveria bassiana
3031	Fusarium sp.	3455	Beauveria bassiana
3032	Fusarium sp.	3457	Beauveria bassiana
3035	Pochonia bulbillosa(?)	3471	Unidentified sp.
3036	Penicillium sp.	3478	Unidentified sp.
3037	Beauveria bassiana	3479	Metarhizium anisopliae sensu lato
3040	Beauveria bassiana	3534	Beauveria bassiana
3054	Beauveria brongniartii	3603	Metarhizium guizhouense
3055	Beauveria bassiana	3604	Metarhizium pingshaense
3056	Metarhizium anisopliae sensu lato	3608	Metarhizium robertsii
3057	Metarhizium anisopliae sensu lato	3667	Beauveria bassiana
3063	Beauveria bassiana	3713	Metarhizium anisopliae sensu lato
3065	Beauveria bassiana	3714	Unidentified sp.
3066	Beauveria bassiana	3715	Verticillium insectorum
3070	Beauveria bassiana	3716	Beauveria bassiana
3097	Beauveria bassiana	3717	Beauveria bassiana
3098	Beauveria bassiana	3718	Cordyceps sp.
3108	Metarhizium robertsii	3719	Unidentified sp.
3111	Beauveria bassiana	3720	Metarhizium anisopliae sensu lato
3112	Beauveria bassiana	3721	Metarhizium robertsii
3145	Metarhizium anisopliae var. majus	3722	Unidentified sp.
3148	Metarhizium anisopliae sensu lato	3724	Unidentified sp.
3197	Beauveria bassiana	3818	Beauveria bassiana
		3819	Beauveria bassiana
		3821	Unidentified sp.
		3841	Unidentified sp.
		3864	Metarhizium brunneum
		3924	Metarhizium anisopliae sensu stricto
		3980	Unidentified sp.
		4001	Beauveria bassiana
		4009	Sterile mycelium
		4011	Fusarium sp.
		4013	Beauveria bassiana
		4015	Beauveria bassiana
		4016	Beauveria bassiana
		4018	Beauveria bassiana
		4019	Beauveria bassiana
		4020	Metarhizium brunneum
		4021	Beauveria bassiana
		4022	Verticillium lecanii
		4023	Beauveria bassiana
		4024	Beauveria brongniartii
		4027	Beauveria sp.
		4028	Beauveria bassiana
		4029	Isaria farinosa
		4031	Beauveria bassiana
		4032	Beauveria bassiana
		4033	Lecanicillium muscarium
		4034	Beauveria bassiana
		4036	Lecanicillium muscarium
		4037	Unidentified sp.
		4038	Beauveria bassiana
		4039	Isaria farinosa
		4040	Isaria farinosa
		4041	Beauveria bassiana
		4043	Isaria farinosa
		4044	Isaria farinosa
		4045	Isaria farinosa
		4046	Beauveria bassiana
		4047	Verticillium lecanii
		4048	Verticillium lecanii
		4049	Beauveria bassiana
		4050	Lecanicillium longisporum
		4051	Beauveria bassiana
		4052	Beauveria bassiana
		4054	Beauveria bassiana
		4055	Beauveria bassiana
		4056	Beauveria bassiana
		4097	Isaria amoenerosea
		4123	Metarhizium robertsii
		4124	Metarhizium frigidum
		4125	Metarhizium anisopliae sensu lato
		4130	Beauveria bassiana
		4131	Metarhizium brunneum
		4132	Metarhizium anisopliae sensu lato
		4133	Metarhizium anisopliae sensu lato
		4134	Metarhizium anisopliae sensu lato
		4135	Beauveria bassiana
		4136	Beauveria bassiana
		4137	Metarhizium anisopliae sensu lato
		4138	Metarhizium anisopliae sensu lato
		4139	Metarhizium anisopliae sensu lato
		4140	Unidentified sp.
		4141	Metarhizium anisopliae sensu lato
		4142	Metarhizium anisopliae sensu lato
		4149	Beauveria amorpha
		4228	Metarhizium brunneum
		4236	Metarhizium anisopliae sensu lato
		4239	Metarhizium anisopliae sensu lato
		4243	Sterile mycelium
		4274	Beauveria bassiana
		4290	Metarhizium anisopliae sensu lato
		4333	Metarhizium anisopliae sensu lato

4334	Metarhizium anisopliae sensu lato	4878	Tolypocladium inflatum	5359	Beauveria brongniartii
4335	Metarhizium anisopliae sensu lato	4879	Tolypocladium inflatum	5360	Beauveria brongniartii
4336	Metarhizium anisopliae sensu lato	4880	Tolypocladium inflatum	5361	Beauveria brongniartii
4337	Metarhizium anisopliae sensu lato	4881	Tolypocladium inflatum	5362	Beauveria brongniartii
4338	Metarhizium anisopliae sensu lato	4882	Tolypocladium inflatum	5363	Beauveria brongniartii
4339	Metarhizium anisopliae sensu lato	4883	Tolypocladium inflatum	5364	Beauveria brongniartii
4340	Metarhizium anisopliae sensu lato	4884	Tolypocladium inflatum	5436	Beauveria bassiana
4341	Metarhizium anisopliae sensu lato	4885	Tolypocladium inflatum	5437	Beauveria bassiana
4342	Metarhizium pingshaense	4886	Tolypocladium inflatum	5438	Beauveria bassiana
4346	Metarhizium anisopliae sensu lato	4887	Tolypocladium inflatum	5439	Beauveria bassiana
4380	Beauveria brongniartii	4888	Tolypocladium inflatum	5440	Beauveria bassiana
4381	Beauveria brongniartii	4889	Tolypocladium inflatum	5441	Beauveria bassiana
4382	Beauveria bassiana	4890	Tolypocladium inflatum	5442	Beauveria bassiana
4384	Beauveria asiatica	4891	Tolypocladium inflatum	5443	Beauveria bassiana
4385	Beauveria brongniartii	4892	Tolypocladium inflatum	5444	Beauveria bassiana
4386	Beauveria brongniartii	4893	Tolypocladium inflatum	5445	Beauveria bassiana
4387	Mixed Culture sp.	4894	Tolypocladium inflatum	5446	Beauveria bassiana
4388	Beauveria brongniartii	4895	Tolypocladium inflatum	5447	Beauveria bassiana
4389	Beauveria brongniartii	4896	Tolypocladium inflatum	5448	Beauveria bassiana
4390	Beauveria sp.	4897	Tolypocladium inflatum	5449	Beauveria bassiana
4391	Beauveria sp.	4898	Tolypocladium inflatum	5450	Beauveria bassiana
4392	Beauveria sp.	4907	Metarhizium anisopliae sensu lato	5451	Beauveria bassiana
4458	Beauveria brongniartii	4908	Metarhizium anisopliae sensu lato	5452	Beauveria bassiana
4465	Beauveria brongniartii	4909	Beauveria sp.	5453	Beauveria bassiana
4466	Beauveria brongniartii	4910	Beauveria sp.	5454	Beauveria bassiana
4467	Beauveria brongniartii	4911	Beauveria sp.	5455	Beauveria bassiana
4468	Beauveria brongniartii	4912	Beauveria sp.	5456	Beauveria bassiana
4469	Beauveria brongniartii	4913	Beauveria sp.	5457	Beauveria bassiana
4470	Beauveria brongniartii	4914	Beauveria sp.	5458	Beauveria bassiana
4471	Beauveria brongniartii	4915	Beauveria sp.	5459	Beauveria bassiana
4472	Beauveria brongniartii	4916	Beauveria sp.	5460	Beauveria bassiana
4473	Beauveria brongniartii	4917	Beauveria sp.	5461	Fusarium sp.
4474	Beauveria asiatica	4918	Beauveria sp.	5465	Beauveria bassiana
4475	Beauveria brongniartii	4933	Beauveria pseudobassiana	5474	Hirsutella fusiformis
4476	Beauveria brongniartii	4973	Beauveria bassiana	5477	Beauveria bassiana
4477	Beauveria brongniartii	4974	Beauveria bassiana	5478	Beauveria bassiana
4478	Beauveria brongniartii	4975	Beauveria bassiana	5479	Beauveria bassiana
4557	Metarhizium anisopliae sensu lato	4990	Beauveria amorpha	5480	Beauveria bassiana
4558	Metarhizium anisopliae sensu lato	4992	Beauveria brongniartii	5481	Beauveria bassiana
4566	Metarhizium majus	4993	Beauveria brongniartii	5482	Beauveria bassiana
4568	Metarhizium anisopliae sensu lato	4994	Beauveria brongniartii	5483	Beauveria bassiana
4572	Metarhizium anisopliae sensu lato	4995	Beauveria brongniartii	5484	Beauveria bassiana
4574	Metarhizium anisopliae sensu lato	5070	Beauveria bassiana	5485	Beauveria bassiana
4582	Metarhizium anisopliae sensu lato	5071	Beauveria bassiana	5486	Beauveria bassiana
4601	Metarhizium majus	5072	Beauveria bassiana	5487	Beauveria bassiana
4604	Metarhizium guizhouense	5073	Isaria farinosa	5488	Beauveria bassiana
4610	Metarhizium pingshaense	5074	Isaria farinosa	5489	Beauveria bassiana
4677	Metarhizium anisopliae sensu lato	5075	Isaria farinosa	5490	Beauveria bassiana
4716	Metarhizium anisopliae sensu lato	5080	Isaria farinosa	5498	Ophiocordyceps aphodii
4719	Metarhizium flavoviride var. flavoviride	5148	Beauveria bassiana	5501	Beauveria bassiana
4720	Metarhizium flavoviride var. flavoviride	5149	Metarhizium robertsii	5533	Beauveria bassiana
4721	Beauveria bassiana	5150	Beauveria bassiana	5534	Beauveria bassiana
4722	Metarhizium anisopliae sensu lato	5184	Paecilomyces sp.	5535	Beauveria bassiana
4777	Metarhizium anisopliae sensu lato	5186	Beauveria sp.	5536	Beauveria bassiana
4778	Metarhizium anisopliae sensu lato	5188	Mixed Culture sp.	5537	Beauveria bassiana
4779	Metarhizium anisopliae sensu lato	5193	Paecilomyces sp.	5553	Beauveria bassiana
4780	Metarhizium anisopliae sensu lato	5195	Beauveria bassiana	5601	Harposporium janus
4798	Beauveria bassiana	5197	Metarhizium pingshaense	5622	Beauveria sp.
4799	Beauveria bassiana	5198	Metarhizium brunneum	5623	Beauveria bassiana
4819	Metarhizium anisopliae sensu lato	5223	Unidentified / Hyphomycetes	5624	Metarhizium anisopliae sensu lato
4820	Metarhizium anisopliae sensu lato	5224	Unidentified / Hyphomycetes	5625	Metarhizium brunneum
4821	Metarhizium anisopliae sensu lato	5225	Unidentified / Hyphomycetes	5626	Metarhizium brunneum
4822	Metarhizium anisopliae sensu lato	5226	Unidentified / Hyphomycetes	5627	Isaria fumosorosea
4823	Metarhizium anisopliae sensu lato	5227	Unidentified / Hyphomycetes	5664	Synnematium jonesii
4824	Metarhizium anisopliae sensu lato	5286	Beauveria bassiana	5668	Beauveria bassiana
4825	Fusarium sp.	5352	Erynia sp.	5669	Beauveria bassiana
4849	Isaria amoenerosea	5355	Beauveria brongniartii	5670	Beauveria bassiana
4852	Cordyceps sp.	5356	Beauveria brongniartii	5677	Unidentified / Hyphomycetes
4853	Beauveria sp.	5357	Beauveria brongniartii	5678	Beauveria sp.
4877	Tolypocladium inflatum	5358	Beauveria brongniartii	5689	Beauveria sungii

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5694	<i>Isaria fumosorosea</i>	6113	<i>Beauveria bassiana</i>	6683	<i>Metarhizium anisopliae sensu lato</i>
5695	Unidentified / Hyphomycetes	6120	<i>Metarhizium brunneum</i>	6684	<i>Metarhizium anisopliae sensu lato</i>
5697	<i>Beauveria</i> sp.	6188	<i>Purpureocillium lilacinum</i>	6685	<i>Metarhizium anisopliae sensu lato</i>
5699	<i>Isaria farinosa</i>	6190	<i>Purpureocillium lilacinum</i>	6686	<i>Beauveria bassiana</i>
5729	<i>Candida</i> sp.	6213	<i>Beauveria brongniartii</i>	6689	<i>Beauveria bassiana</i>
5740	<i>Beauveria bassiana</i>	6214	<i>Beauveria brongniartii</i>	6692	<i>Beauveria bassiana</i>
5741	<i>Beauveria bassiana</i>	6215	<i>Beauveria brongniartii</i>	6693	<i>Beauveria bassiana</i>
5742	<i>Beauveria bassiana</i>	6216	<i>Beauveria bassiana</i>	6695	<i>Beauveria bassiana</i>
5743	<i>Beauveria bassiana</i>	6217	<i>Beauveria bassiana</i>	6696	<i>Beauveria bassiana</i>
5744	<i>Beauveria bassiana</i>	6229	<i>Beauveria pseudobassiana</i>	6697	<i>Beauveria bassiana</i>
5745	<i>Beauveria bassiana</i>	6235	<i>Beauveria brongniartii</i>	6721	<i>Beauveria bassiana</i>
5754	<i>Isaria farinosa</i>	6241	<i>Isaria cateniannullata</i>	6730	<i>Isaria fumosorosea</i>
5764	<i>Paraisaria dubia</i>	6243	<i>Isaria cateniannullata</i>	6827	<i>Beauveria amorpho(?)</i>
5807	<i>Beauveria bassiana</i>	6244	<i>Isaria catenobliqua</i>	6884	<i>Beauveria bassiana</i>
5810	<i>Batko</i> sp.	6387	<i>Beauveria bassiana</i>	6885	<i>Beauveria bassiana</i>
5813	<i>Beauveria bassiana</i>	6388	<i>Metarhizium anisopliae sensu lato</i>	6890	<i>Beauveria bassiana(?)</i>
5831	<i>Beauveria</i> sp.	6389	<i>Metarhizium anisopliae sensu lato</i>	6891	<i>Beauveria bassiana(?)</i>
5833	<i>Beauveria</i> sp.	6390	<i>Beauveria bassiana</i>	6900	<i>Beauveria bassiana</i>
5834	<i>Isaria farinosa</i>	6391	<i>Beauveria bassiana</i>	6901	<i>Metarhizium anisopliae sensu lato</i>
5836	<i>Beauveria bassiana</i>	6392	<i>Metarhizium brunneum</i>	6903	<i>Beauveria bassiana</i>
5837	<i>Metarhizium anisopliae sensu lato</i>	6393	<i>Beauveria bassiana</i>	6986	<i>Beauveria bassiana</i>
5838	<i>Beauveria bassiana</i>	6412	<i>Beauveria brongniartii</i>	6987	<i>Beauveria bassiana</i>
5839	<i>Beauveria bassiana</i>	6454	<i>Aspergillus flavus</i>	6988	<i>Beauveria bassiana</i>
5840	<i>Beauveria bassiana</i>	6469	<i>Aspergillus flavus</i>	7000	<i>Metarhizium anisopliae sensu lato</i>
5841	<i>Metarhizium anisopliae sensu lato</i>	6470	<i>Mucor circinelloides</i>	7001	<i>Metarhizium anisopliae sensu lato</i>
5842	<i>Metarhizium anisopliae sensu lato</i>	6471	<i>Beauveria bassiana</i>	7002	<i>Metarhizium anisopliae sensu lato</i>
5843	<i>Beauveria bassiana</i>	6472	<i>Metarhizium robertsii</i>	7003	<i>Metarhizium anisopliae sensu lato</i>
5844	<i>Isaria fumosorosea</i>	6477	<i>Metarhizium brunneum</i>	7004	<i>Metarhizium anisopliae sensu lato</i>
5845	<i>Isaria fumosorosea</i>	6478	<i>Beauveria bassiana</i>	7005	<i>Metarhizium anisopliae sensu lato</i>
5846	<i>Isaria fumosorosea</i>	6483	<i>Beauveria bassiana</i>	7006	<i>Metarhizium anisopliae sensu lato</i>
5847	<i>Isaria fumosorosea</i>	6484	<i>Verticillium</i> sp.	7007	<i>Metarhizium anisopliae sensu lato</i>
5848	<i>Metarhizium anisopliae sensu lato</i>	6486	<i>Verticillium</i> sp.	7008	<i>Metarhizium anisopliae sensu lato</i>
5849	<i>Verticillium lecanii</i>	6487	<i>Verticillium lecanii</i>	7009	<i>Metarhizium anisopliae sensu lato</i>
5850	<i>Metarhizium anisopliae sensu lato</i>	6488	<i>Isaria farinosa</i>	7048	<i>Aspergillus</i> sp.
5856	<i>Verticillium lecanii</i>	6489	<i>Isaria farinosa</i>	7063	<i>Fusarium</i> sp.
5857	<i>Beauveria bassiana</i>	6491	<i>Isaria farinosa</i>	7119	<i>Isaria javanica</i>
5858	<i>Isaria farinosa</i>	6499	<i>Beauveria bassiana</i>	7152	<i>Beauveria bassiana</i>
5875	<i>Fusarium</i> sp.	6501	<i>Verticillium</i> sp.	7153	<i>Beauveria bassiana</i>
5876	<i>Purpureocillium lilacinum</i>	6515	<i>Aspergillus nidulans(?)</i>	7154	<i>Beauveria bassiana</i>
5877	<i>Purpureocillium lilacinum</i>	6516	<i>Cladosporium sphaerospermum</i>	7155	<i>Beauveria bassiana</i>
5878	<i>Fusarium</i> sp.	6526	<i>Beauveria bassiana</i>	7156	<i>Beauveria bassiana</i>
5879	<i>Fusarium</i> sp.	6527	<i>Beauveria bassiana</i>	7157	<i>Beauveria bassiana</i>
5880	<i>Purpureocillium lilacinum</i>	6528	<i>Beauveria bassiana</i>	7158	<i>Beauveria bassiana</i>
5882	<i>Purpureocillium lilacinum</i>	6529	<i>Beauveria bassiana</i>	7159	<i>Beauveria bassiana</i>
5979	<i>Beauveria bassiana</i>	6530	<i>Beauveria bassiana</i>	7160	<i>Beauveria bassiana</i>
5981	<i>Beauveria bassiana</i>	6531	<i>Beauveria bassiana</i>	7161	<i>Beauveria bassiana</i>
5982	<i>Beauveria bassiana</i>	6532	<i>Beauveria bassiana</i>	7162	<i>Beauveria bassiana</i>
5983	<i>Beauveria bassiana</i>	6545	<i>Verticillium lecanii</i>	7163	<i>Beauveria bassiana</i>
5984	<i>Beauveria bassiana</i>	6546	<i>Metarhizium anisopliae sensu stricto</i>	7164	<i>Beauveria bassiana</i>
5986	<i>Beauveria bassiana</i>	6549	<i>Metarhizium anisopliae sensu lato</i>	7165	<i>Beauveria bassiana</i>
5997	<i>Beauveria bassiana</i>	6551	<i>Metarhizium anisopliae sensu lato</i>	7166	<i>Beauveria bassiana</i>
6055	<i>Beauveria bassiana</i>	6552	<i>Beauveria bassiana</i>	7167	<i>Beauveria bassiana</i>
6057	<i>Beauveria bassiana</i>	6559	<i>Beauveria bassiana</i>	7168	<i>Beauveria bassiana</i>
6058	<i>Beauveria bassiana</i>	6560	<i>Beauveria bassiana</i>	7169	<i>Beauveria bassiana</i>
6059	<i>Beauveria bassiana</i>	6571	<i>Aspergillus</i> sp.	7170	<i>Beauveria bassiana</i>
6061	<i>Beauveria bassiana</i>	6602	<i>Fusarium</i> sp.	7171	<i>Beauveria bassiana</i>
6062	<i>Beauveria bassiana</i>	6669	<i>Beauveria bassiana</i>	7172	<i>Beauveria bassiana</i>
6063	<i>Beauveria bassiana</i>	6670	<i>Metarhizium anisopliae sensu lato</i>	7173	<i>Beauveria bassiana</i>
6064	<i>Beauveria bassiana</i>	6671	<i>Metarhizium anisopliae sensu lato</i>	7174	<i>Beauveria bassiana</i>
6074	<i>Beauveria bassiana</i>	6672	<i>Metarhizium anisopliae sensu lato</i>	7175	<i>Beauveria bassiana</i>
6075	<i>Beauveria bassiana</i>	6673	<i>Metarhizium anisopliae sensu lato</i>	7176	<i>Beauveria bassiana</i>
6077	<i>Beauveria bassiana</i>	6674	<i>Metarhizium anisopliae sensu lato</i>	7177	<i>Beauveria bassiana</i>
6078	<i>Beauveria bassiana</i>	6675	<i>Metarhizium anisopliae sensu lato</i>	7178	<i>Beauveria bassiana</i>
6092	<i>Beauveria bassiana</i>	6676	<i>Beauveria bassiana</i>	7179	<i>Beauveria bassiana</i>
6095	<i>Beauveria bassiana</i>	6677	<i>Metarhizium anisopliae sensu lato</i>	7180	<i>Metarhizium anisopliae sensu lato</i>
6096	<i>Beauveria bassiana</i>	6678	<i>Metarhizium anisopliae sensu lato</i>	7181	<i>Lecanicillium lecanii</i>
6099	<i>Beauveria bassiana</i>	6679	<i>Metarhizium anisopliae sensu lato</i>	7182	<i>Lecanicillium lecanii</i>
6110	<i>Purpureocillium lilacinum</i>	6680	<i>Metarhizium anisopliae sensu lato</i>	7202	<i>Beauveria bassiana</i>
6111	<i>Beauveria bassiana</i>	6681	<i>Beauveria bassiana</i>	7218	<i>Evlachovaea kintrischka</i>
6112	<i>Beauveria bassiana</i>	6682	<i>Metarhizium anisopliae sensu lato</i>	7234	<i>Metarhizium anisopliae sensu lato</i>

7241	Beauveria bassiana	7773	Beauveria bassiana	8120	Beauveria sp.
7244	Beauveria bassiana	7774	Beauveria bassiana	8121	Beauveria sp.
7247	Beauveria bassiana	7795	Beauveria bassiana	8122	Beauveria sp.
7248	Lecanicillium muscarium	7805	Engyodontium rectidentatum	8123	Beauveria sp.
7251	Beauveria bassiana	7812	Tolypocladium cylindrosporum	8124	Beauveria sp.
7261	Beauveria bassiana	7813	Beauveria bassiana	8125	Beauveria sp.
7264	Beauveria bassiana	7814	Metarhizium anisopliae sensu lato	8126	Beauveria sp.
7266	Beauveria bassiana	7815	Metarhizium anisopliae sensu lato	8127	Beauveria sp.
7268	Beauveria brongniartii	7816	Metarhizium anisopliae sensu lato	8128	Beauveria sp.
7270	Beauveria bassiana	7819	Metarhizium anisopliae sensu lato	8129	Beauveria sp.
7271	Beauveria bassiana	7824	Metarhizium anisopliae sensu lato	8130	Beauveria sp.
7272	Beauveria bassiana	7825	Metarhizium anisopliae sensu lato	8131	Fusarium sp.
7275	Beauveria bassiana	7826	Metarhizium anisopliae sensu lato	8132	Beauveria sp.
7276	Isaria farinosa	7827	Metarhizium anisopliae sensu lato	8133	Beauveria sp.
7277	Cordyceps scarabaeicola	7828	Metarhizium anisopliae sensu lato	8134	Beauveria sp.
7278	Cordyceps scarabaeicola	7829	Metarhizium anisopliae sensu lato	8135	Beauveria sp.
7279	Beauveria sungii	7830	Metarhizium anisopliae sensu lato	8136	Beauveria sp.
7280	Beauveria sungii	7831	Metarhizium anisopliae sensu lato	8137	Beauveria sp.
7282	Acremonium alternatum	7832	Metarhizium anisopliae sensu lato	8138	Beauveria sp.
7284	Isaria fumosorosea	7839	Metarhizium anisopliae sensu lato	8139	Beauveria sp.
7403	Evlachovaea sp.	7842	Metarhizium anisopliae sensu lato	8140	Beauveria sp.
7404	Beauveria bassiana	7843	Metarhizium anisopliae sensu lato	8141	Beauveria sp.
7410	Metarhizium pingshaense	7844	Metarhizium anisopliae sensu lato	8142	Isaria fumosorosea
7411	Metarhizium anisopliae sensu lato	7845	Metarhizium anisopliae sensu lato	8143	Beauveria sp.
7412	Metarhizium lepidiotae	7846	Metarhizium anisopliae sensu lato	8144	Beauveria sp.
7417	Metarhizium pingshaense	7848	Cordyceps sp.	8145	Beauveria sp.
7424	Metarhizium robertsii	7853	Beauveria bassiana	8146	Beauveria sp.
7435	Metarhizium pingshaense	7854	Metarhizium anisopliae sensu lato	8147	Beauveria sp.
7449	Metarhizium robertsii	7863	Metarhizium anisopliae sensu lato	8148	Beauveria sp.
7450	Metarhizium anisopliae sensu stricto	7864	Metarhizium anisopliae sensu lato	8149	Beauveria sp.
7451	Metarhizium anisopliae sensu lato	7865	Metarhizium anisopliae sensu lato	8150	Beauveria sp.
7452	Metarhizium anisopliae sensu lato	7931	Metarhizium anisopliae sensu lato	8151	Beauveria sp.
7453	Metarhizium anisopliae var. lepidotae	7932	Metarhizium anisopliae sensu lato	8152	Beauveria sp.
7456	Tolypocladium cylindrosporum	7933	Metarhizium anisopliae sensu lato	8153	Beauveria sp.
7463	Beauveria sp.	7934	Metarhizium anisopliae sensu lato	8154	Beauveria sp.
7466	Beauveria bassiana	7935	Metarhizium anisopliae sensu lato	8155	Unidentified / Hyphomycetes
7470	Beauveria bassiana	7936	Metarhizium anisopliae sensu lato	8156	Beauveria sp.
7471	Beauveria bassiana	7941	Beauveria bassiana	8157	Lecanicillium muscarium
7488	Metarhizium lepidiotae	7972	Beauveria bassiana	8158	Beauveria sp.
7492	Metarhizium anisopliae sensu lato	7978	Beauveria bassiana	8159	Beauveria sp.
7493	Metarhizium sp.	8024	Beauveria caledonica	8160	Beauveria sp.
7494	Metarhizium anisopliae sensu lato	8037	Beauveria bassiana	8161	Beauveria sp.
7495	Metarhizium sp.	8038	Beauveria bassiana	8162	Lecanicillium muscarium(?)
7496	Metarhizium anisopliae sensu lato	8048	Lecanicillium muscarium	8163	Lecanicillium muscarium
7498	Metarhizium anisopliae sensu lato	8049	Lecanicillium muscarium	8164	Beauveria sp.
7499	Metarhizium anisopliae sensu lato	8050	Lecanicillium muscarium	8165	Lecanicillium muscarium
7500	Metarhizium anisopliae sensu lato	8051	Lecanicillium muscarium	8166	Beauveria sp.
7504	Metarhizium anisopliae sensu lato	8052	Lecanicillium muscarium	8167	Beauveria sp.
7505	Metarhizium majus	8053	Lecanicillium muscarium	8168	Beauveria sp.
7516	Cordyceps brongniartii	8054	Lecanicillium muscarium	8169	Beauveria sp.
7517	Cordyceps brongniartii	8055	Lecanicillium pisodis	8170	Beauveria sp.
7524	Metarhizium anisopliae sensu lato	8056	Lecanicillium pisodis	8171	Beauveria sp.
7525	Beauveria bassiana	8057	Lecanicillium pisodis	8172	Beauveria sp.
7526	Beauveria bassiana	8058	Evlachovaea kintrischica	8173	Beauveria sp.
7527	Metarhizium anisopliae sensu lato	8065	Beauveria bassiana	8174	Beauveria sp.
7528	Beauveria brongniartii	8077	Beauveria bassiana	8175	Beauveria sp.
7529	Metarhizium anisopliae sensu lato	8078	Beauveria bassiana	8176	Beauveria sp.
7532	Metarhizium anisopliae sensu lato	8079	Beauveria bassiana	8177	Beauveria sp.
7551	Evlachovaea sp.	8098	Metarhizium anisopliae sensu lato	8178	Beauveria sp.
7580	Beauveria sp.	8099	Metarhizium anisopliae sensu lato	8179	Unidentified / Hyphomycetes
7581	Beauveria bassiana	8110	Beauveria sp.	8180	Beauveria sp.
7591	Beauveria sp.	8111	Beauveria sp.	8181	Beauveria sp.
7595	Beauveria sp.	8112	Beauveria sp.	8182	Beauveria sp.
7758	Beauveria bassiana	8113	Beauveria sp.	8183	Unidentified / Hyphomycetes
7760	Beauveria malawiensis	8114	Lecanicillium muscarium	8184	Unidentified / Hyphomycetes
7761	Beauveria brongniartii	8115	Lecanicillium lecanii	8185	Beauveria sp.
7763	Beauveria bassiana	8116	Beauveria sp.	8186	Beauveria sp.
7764	Beauveria bassiana	8117	Beauveria sp.	8187	Beauveria sp.
7769	Beauveria bassiana	8118	Lecanicillium muscarium	8188	Beauveria sp.
		8119	Beauveria sp.	8250	Beauveria sp.

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8911	Metarhizium anisopliae sensu lato	9509	Isaria coleopterorum
8912	Metarhizium anisopliae sensu lato	9511	Isaria farinosa
8913	Metarhizium anisopliae sensu lato	9516	Isaria farinosa
8914	Metarhizium anisopliae sensu lato	9519	Isaria sp.
8915	Metarhizium anisopliae sensu lato	9521	Isaria fumosorosea
8916	Metarhizium anisopliae sensu lato	9524	Purpureocillium lilacinum
8917	Isaria farinosa	9602	Isaria fumosorosea
8918	Purpureocillium lilacinum	9944	Isaria farinosa
8919	Purpureocillium lilacinum	9945	Isaria farinosa
8920	Purpureocillium lilacinum	10132	Tilachlidium sp.
8921	Purpureocillium lilacinum	10347	Beauveria bassiana
8922	Purpureocillium lilacinum	10350	Beauveria bassiana
8923	Lecanicillium muscarium	10469	Metarhizium anisopliae sensu lato
8941	Metarhizium anisopliae sensu lato		
8942	Metarhizium anisopliae sensu lato		
8943	Metarhizium anisopliae sensu lato		
8944	Metarhizium anisopliae sensu lato		
8945	Metarhizium anisopliae sensu lato		
8946	Metarhizium anisopliae sensu lato		
8947	Metarhizium anisopliae sensu lato		
8948	Metarhizium anisopliae sensu lato		
8949	Metarhizium anisopliae sensu lato		
8950	Metarhizium anisopliae sensu lato		
8951	Metarhizium anisopliae sensu lato		
8952	Metarhizium anisopliae sensu lato		
8953	Metarhizium anisopliae sensu lato		
8954	Metarhizium anisopliae sensu lato		
8955	Metarhizium anisopliae sensu lato		
8998	Beauveria bassiana		
9184	Beauveria bassiana		
9217	Metarhizium anisopliae sensu lato		
9218	Metarhizium anisopliae sensu lato		
9235	Metarhizium anisopliae sensu lato		
9236	Metarhizium anisopliae sensu lato		
9267	Lecanicillium muscarium		
9268	Lecanicillium muscarium		
9269	Isaria farinosa		
9270	Isaria farinosa		
9271	Beauveria bassiana(?)		
9272	Beauveria sp.		
9273	Fusarium sp.		
9274	Fusarium sp.		
9275	Isaria farinosa		
9276	Isaria farinosa		
9277	Isaria farinosa		
9278	Isaria farinosa		
9297	Beauveria bassiana		
9298	Beauveria bassiana		
9299	Beauveria bassiana		
9300	Beauveria bassiana		
9301	Beauveria bassiana		
9302	Beauveria bassiana		
9371	Purpureocillium lilacinum		
9372	Metarhizium anisopliae sensu lato		
9373	Metarhizium anisopliae sensu lato		
9374	Metarhizium anisopliae sensu lato		
9381	Aspergillus flavus		
9441	Beauveria bassiana		
9442	Beauveria bassiana		
9444	Beauveria bassiana		
9449	Beauveria bassiana		
9452	Beauveria brongniartii		
9459	Lecanicillium sp.		
9460	Lecanicillium nr. aranearium		
9479	Simplicillium lamellicola		
9483	Lecanicillium fungicola		
9491	Clonostachys rosea		
9496	Polycephalomyces sp.		
9497	Polycephalomyces sp.		
9502	Sporothrix insectorum		